



# THE DATASHEET OF AOZ6185QT



# Selector Guide

## Winter/Spring 2019

*Powering a Greener Future™*

## CORPORATE OVERVIEW

Alpha and Omega Semiconductor Limited (AOS) is a designer, developer and global supplier of a broad range of power semiconductors, including a wide portfolio of Power MOSFET, IGBT, IPM and Power IC products. AOS has developed extensive intellectual property and technical knowledge that encompasses the latest advancements in the power semiconductor industry, which enables it to introduce innovative products to address the increasingly complex power requirements of advanced electronics. AOS differentiates itself by integrating its Discrete and IC semiconductor process technology, product design, and advanced packaging know-how to develop high-performance power management solutions. AOS' products are aimed at, but not limited to applications such as portable computers, tablets, smart phones, flat panel TVs, LED lighting, battery packs, consumer and industrial motor controls, and power supplies for TVs, computers, servers and telecommunications equipment.



| MARKET SEGMENTS          |                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | Computing / Conventional                                                                                                                                                                                                                                                                                                                                         | Computing / Advanced                                                                                                                                                                                                                                                                                                                                           | Consumer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Communications                                                                                                                                                                                                                                                                                                                             | Industrial / Power Supplies                                                                                                                                                                                                                                                                                                                                                                                                   |
| APPLICATIONS             | <ul style="list-style-type: none"><li>■ Notebooks</li><li>■ Netbooks</li><li>■ Desktops</li><li>■ NB Battery Packs</li><li>■ Game Consoles</li><li>■ Docking Stations</li><li>■ Computer Monitors</li></ul>                                                                                                                                                      | <ul style="list-style-type: none"><li>■ Servers</li><li>■ Data Storage Devices</li><li>■ Ultra Notebooks</li><li>■ Tablets</li><li>■ Graphic Cards</li></ul>                                                                                                                                                                                                   | <ul style="list-style-type: none"><li>■ Quick Charger</li><li>■ TV DC-DC Conversion</li><li>■ LED Drivers</li><li>■ LED Backlighting</li><li>■ Home Appliances</li><li>■ Induction Heating</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"><li>■ Mobile Phones</li><li>■ Networking</li><li>■ Battery Packs</li></ul>                                                                                                                                                                                                                               | <ul style="list-style-type: none"><li>■ Motor Controls</li><li>■ Power Supplies</li><li>■ Telecom Power</li><li>■ Lighting</li><li>■ Welding</li><li>■ PV Inverters</li></ul>                                                                                                                                                                                                                                                 |
| KEY FAMILIES / PLATFORMS | <ul style="list-style-type: none"><li>■ Low and Medium Voltage MOSFETs<ul style="list-style-type: none"><li>- Gen5+</li><li>- XSFET™ Family</li><li>- AlphaSGT2</li><li>- Load Switch</li></ul></li><li>■ Power ICs<ul style="list-style-type: none"><li>- DC-DC EZBuck™</li><li>- DrMOS</li><li>- Smart Load Management</li><li>- Type C PD</li></ul></li></ul> | <ul style="list-style-type: none"><li>■ Power ICs<ul style="list-style-type: none"><li>- DC-DC EZBuck™</li><li>- DrMOS</li><li>- Smart Load Management</li><li>- Type C PD</li></ul></li><li>■ Low and Medium Voltage MOSFETs<ul style="list-style-type: none"><li>- Gen5+</li><li>- XSFET™ Family</li><li>- AlphaSGT2</li><li>- AlphaDFN™</li></ul></li></ul> | <ul style="list-style-type: none"><li>■ Power ICs<ul style="list-style-type: none"><li>- DC-DC EZBuck™</li><li>- AC/DC</li><li>- Smart Load Management</li></ul></li><li>■ Low and Medium Voltage MOSFETs<ul style="list-style-type: none"><li>- Gen5+</li><li>- AlphaSGT2</li></ul></li><li>■ High Voltage Super-Junction MOSFETs<ul style="list-style-type: none"><li>- 600V αMOS5™</li><li>- 700V αMOS5™</li></ul></li><li>■ IPMs<ul style="list-style-type: none"><li>- 600V IPM</li></ul></li><li>■ IGBTs<ul style="list-style-type: none"><li>- 650V IGBT/FRD</li><li>- 1200V &amp; 1350V IGBT/FRD</li></ul></li></ul> | <ul style="list-style-type: none"><li>■ Power ICs<ul style="list-style-type: none"><li>- DC-DC EZBuck™</li><li>- DrMOS</li><li>- Smart Load Management</li></ul></li><li>■ Low and Medium Voltage MOSFETs<ul style="list-style-type: none"><li>- Gen5+</li><li>- XSFET™ Family</li><li>- AlphaSGT2</li><li>- AlphaDFN™</li></ul></li></ul> | <ul style="list-style-type: none"><li>■ Medium Voltage MOSFETs<ul style="list-style-type: none"><li>- AlphaSGT2™</li></ul></li><li>■ High Voltage Super-Junction MOSFETs<ul style="list-style-type: none"><li>- 600V αMOS5™</li><li>- 700V αMOS5™</li></ul></li><li>■ IPMs<ul style="list-style-type: none"><li>- 600V IPM</li></ul></li><li>■ IGBTs<ul style="list-style-type: none"><li>- 650V IGBT/FRD</li></ul></li></ul> |





## DIVERSE CUSTOMER BASE

| Telecom                                                                                                                                                                                                            | Consumer                                                                                                                                                      |                                                                                                                                                                                                                           | Computing                                                                                                                                        | Industrial                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                    | Black Goods                                                                                                                                                   | White Goods                                                                                                                                                                                                               |                                                                                                                                                  |                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"><li>▪ Alcatel-Lucent</li><li>▪ Belfuse</li><li>▪ Delta</li><li>▪ Efore</li><li>▪ Emerson</li><li>▪ H3C</li><li>▪ Murata</li><li>▪ Nokia Siemens Networks</li><li>▪ ZTE</li></ul> | <ul style="list-style-type: none"><li>▪ Changhong</li><li>▪ Hisense</li><li>▪ LG</li><li>▪ Panasonic</li><li>▪ Samsung</li><li>▪ Sony</li><li>▪ TCL</li></ul> | <ul style="list-style-type: none"><li>▪ Changhong</li><li>▪ Cuckoo</li><li>▪ Haier</li><li>▪ Hisense</li><li>▪ Microsteps</li><li>▪ Midea</li><li>▪ Nidec</li><li>▪ Panasonic</li><li>▪ Samsung</li><li>▪ Sanyo</li></ul> | <ul style="list-style-type: none"><li>▪ Acer</li><li>▪ Asus</li><li>▪ Dell</li><li>▪ Hewlett Packard</li><li>▪ Lenovo</li><li>▪ Nvidia</li></ul> | <ul style="list-style-type: none"><li>▪ BYD</li><li>▪ Chicony</li><li>▪ Delta</li><li>▪ Emerson</li><li>▪ Lite-On</li><li>▪ Nidec</li><li>▪ Philips</li><li>▪ Stanley Black &amp; Decker</li><li>▪ Tyco</li></ul> |

## AOS, APM, JIREH AND CQAOS PLANTS HAVE PASSED MANY QS CERIFICATIONS WHICH INCLUDE THE FOLLOWING:

- ISO 9001 (Quality Manangement System)
- ISO 14001 (Environmental Manangement System)
- QC 080000 (Hazardous Substance Manangement System)
- Sony's Green Partner Program
- ISO 14064 (Greenhouse Gasses)
- IATF 16949 (Automotive)

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|-----------------------------------|----|
| AlphaDFN™ 0.97x0.97 .....         | 18 |
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| AlphaDFN™ 1.79x1.18.....          | 18 |
| AlphaDFN™ 1.9x1.6.....            | 18 |
| AlphaDFN™ 2.7x1.81.....           | 18 |
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|---------------|----|
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## **Medium Voltage MOSFETs (40V to 400V)**

### *By Package*

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|------------------|----|
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| DFN 2x2.....     | 33 |
| DFN 3x3.....     | 33 |
| DFN 3.3x3.3..... | 33 |
| DFN 5x6.....     | 36 |
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|                             |    |
|-----------------------------|----|
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| TO-220.....  | 48 |
| TO-220F..... | 48 |
| TO-247.....  | 48 |
| TO-251.....  | 48 |
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| TO-262F..... | 50 |
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|                   |    |
|-------------------|----|
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## POWER ICs

AOS provides best-in-class power management solutions combining Power Discrete and IC technologies. The portfolio of products includes EZBuck™ Step-down DC/DC regulators, DrMOS Power Modules, ECPower™ Type C Protection

### DC-DC Buck Regulators – Synchronous EZBuck™ Family

| Part Number          |            | Description                                                                 | PGOOD      | Soft Start            |
|----------------------|------------|-----------------------------------------------------------------------------|------------|-----------------------|
| AOZ1022DI-01         |            | 3A EZBuck Regulator with PGOOD                                              | Yes        | Internal - 4ms        |
| AOZ1037PI            |            | 5A EZBuck Regulator with PGOOD                                              | Yes        | Internal - 3ms        |
| AOZ1037PI-01         |            | 3A EZBuck Regulator with PGOOD                                              | Yes        | Internal - 3ms        |
| AOZ2150EQI-30        |            | 3A EZBuck with Light Load Mode                                              | No         | Adjustable            |
| <b>AOZ2151EQI-30</b> | <b>NEW</b> | <b>4A COT EZBuck Regulator with Light Load Mode</b>                         | <b>No</b>  | <b>Adjustable</b>     |
| <b>AOZ2151EQI-31</b> | <b>NEW</b> | <b>4A COT EZBuck Regulator</b>                                              | <b>No</b>  | <b>Adjustable</b>     |
| <b>AOZ2151PQI-03</b> | <b>NEW</b> | <b>4A COT EZBuck Regulator</b>                                              | <b>No</b>  | <b>Adjustable</b>     |
| <b>AOZ2151PQI-05</b> | <b>NEW</b> | <b>4A COT EZBuck Regulator</b>                                              | <b>No</b>  | <b>Adjustable</b>     |
| <b>AOZ2151PQI-10</b> | <b>NEW</b> | <b>4A COT EZBuck Regulator</b>                                              | <b>No</b>  | <b>Adjustable</b>     |
| <b>AOZ2151QI-01</b>  | <b>NEW</b> | <b>4A COT EZBuck Regulator</b>                                              | <b>Yes</b> | <b>Adjustable</b>     |
| <b>AOZ2151TQI-19</b> | <b>NEW</b> | <b>4A COT EZBuck Regulator</b>                                              | <b>Yes</b> | <b>Adjustable</b>     |
| <b>AOZ2152EQI-28</b> | <b>NEW</b> | <b>6A COT EZBuck Regulator with Light Load Mode</b>                         | <b>No</b>  | <b>Adjustable</b>     |
| <b>AOZ2152EQI-29</b> | <b>NEW</b> | <b>6A COT EZBuck Regulator</b>                                              | <b>No</b>  | <b>Adjustable</b>     |
| <b>AOZ2152EQI-30</b> | <b>NEW</b> | <b>6A COT EZBuck Regulator with Light Load Mode</b>                         | <b>No</b>  | <b>Adjustable</b>     |
| <b>AOZ2152EQI-31</b> | <b>NEW</b> | <b>6A COT EZBuck Regulator</b>                                              | <b>No</b>  | <b>Adjustable</b>     |
| <b>AOZ2152TQI-19</b> | <b>NEW</b> | <b>6A COT EZBuck Regulator</b>                                              | <b>Yes</b> | <b>Adjustable</b>     |
| <b>AOZ2153EQI-30</b> | <b>NEW</b> | <b>8A COT EZBuck Regulator with Light Load Mode</b>                         | <b>No</b>  | <b>Adjustable</b>     |
| <b>AOZ2153PQI-04</b> | <b>NEW</b> | <b>8A COT EZBuck Regulator</b>                                              | <b>No</b>  | <b>Adjustable</b>     |
| AOZ2231CQI-01        |            | 4A I <sup>2</sup> C Controllable COT EZBuck Regulator                       | Yes        | Internal - 4ms        |
| <b>AOZ2231CQI-11</b> | <b>NEW</b> | <b>4A I<sup>2</sup>C Controllable EZBuck Regulator with Light Load Mode</b> | <b>Yes</b> | <b>Internal - 4ms</b> |
| <b>AOZ2232CQI-02</b> | <b>NEW</b> | <b>6A I<sup>2</sup>C Controllable EZBuck Regulator with Light Load Mode</b> | <b>Yes</b> | <b>Internal - 4ms</b> |
| AOZ2233CQI-02        |            | 8A I <sup>2</sup> C Controllable COT EZBuck Regulator                       | Yes        | Internal - 4ms        |
| <b>AOZ2233CQI-12</b> | <b>NEW</b> | <b>8A I<sup>2</sup>C Controllable COT EZBuck Regulator</b>                  | <b>Yes</b> | <b>Internal - 4ms</b> |
| <b>AOZ2234CQI-02</b> | <b>NEW</b> | <b>10A I<sup>2</sup>C Controllable EZBuck with Light Load Mode</b>          | <b>Yes</b> | <b>Internal - 4ms</b> |
| <b>AOZ2235CQI-02</b> | <b>NEW</b> | <b>12A I<sup>2</sup>C Controllable EZBuck with Light Load Mode</b>          | <b>Yes</b> | <b>Internal - 4ms</b> |
| <b>AOZ2236CQI-02</b> | <b>NEW</b> | <b>15A I<sup>2</sup>C Controllable EZBuck with Light Load Mode</b>          | <b>Yes</b> | <b>Internal - 4ms</b> |
| AOZ2253EQI-30        |            | 8A EZBuck with Light Load Mode                                              | No         | Adjustable            |
| <b>AOZ2253EQI-31</b> | <b>NEW</b> | <b>8A COT EZBuck Regulator</b>                                              | <b>No</b>  | <b>Adjustable</b>     |
| <b>AOZ2253TQI-11</b> | <b>NEW</b> | <b>8A COT EZBuck Regulator</b>                                              | <b>Yes</b> | <b>Adjustable</b>     |
| <b>AOZ2253TQI-20</b> | <b>NEW</b> | <b>8A COT EZBuck Regulator</b>                                              | <b>Yes</b> | <b>Adjustable</b>     |
| <b>AOZ2254EQI-30</b> | <b>NEW</b> | <b>10A COT EZBuck Regulator with Light Load Mode</b>                        | <b>No</b>  | <b>Adjustable</b>     |
| <b>AOZ2254EQI-31</b> | <b>NEW</b> | <b>10A COT EZBuck Regulator with Light Load Mode</b>                        | <b>No</b>  | <b>Adjustable</b>     |
| <b>AOZ2254TQI-11</b> |            | <b>10A COT EZBuck Regulator</b>                                             | <b>No</b>  | <b>Adjustable</b>     |
| <b>AOZ2254TQI-20</b> |            | <b>10A COT EZBuck Regulator</b>                                             | <b>Yes</b> | <b>Adjustable</b>     |
| AOZ2255EQI-30        |            | 12A COT EZBuck with Light Load Mode                                         | No         | Adjustable            |
| <b>AOZ2255LQI-30</b> | <b>NEW</b> | <b>12A COT EZBuck with Light Load Mode</b>                                  | <b>Yes</b> | <b>Adjustable</b>     |
| <b>AOZ2255EQI-31</b> | <b>NEW</b> | <b>12A COT EZBuck with Light Load Mode</b>                                  | <b>No</b>  | <b>Adjustable</b>     |
| AOZ2260QI-10         |            | 6A COT EZBuck Regulator                                                     | Yes        | Adjustable            |
| AOZ2260QI-15         |            | 6A COT EZBuck Regulator                                                     | Yes        | Adjustable            |
| AOZ2261QI-11         |            | 8A COT EZBuck Regulator                                                     | Yes        | Adjustable            |

Switch, EZPower™ smart load switches, and power factor correction (PFC) devices. AOS' approach is to provide high-power density solutions to reduce design complexity and development time.

| Min $V_{IN}$<br>(V) | Max $V_{IN}$<br>(V) | Max $I_{OUT}$<br>(A) | Min $V_{OUT}$<br>(V) | Max $V_{OUT}$<br>(V) | Operating Freq.<br>(kHz) | Package          |
|---------------------|---------------------|----------------------|----------------------|----------------------|--------------------------|------------------|
| 4.5                 | 16.0                | 3.0                  | 0.8                  | 15.0                 | 500                      | DFN5x4           |
| 4.5                 | 18.0                | 5.0                  | 0.8                  | 17.0                 | 500                      | Exposed Pad SO-8 |
| 4.5                 | 18.0                | 5.0                  | 0.8                  | 17.0                 | 500                      | Exposed Pad SO-8 |
| 6.5                 | 28                  | 3.0                  | 0.8                  | 24                   | 1000                     | QFN 3x3          |
| <b>6.5</b>          | <b>28</b>           | <b>4.0</b>           | <b>0.8</b>           | <b>24</b>            | <b>1000</b>              | <b>QFN 3x3</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>4.0</b>           | <b>0.8</b>           | <b>24</b>            | <b>1000</b>              | <b>QFN 3x3</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>4.0</b>           | <b>0.8</b>           | <b>14</b>            | <b>1000</b>              | <b>QFN 3x3</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>4.0</b>           | <b>0.8</b>           | <b>14</b>            | <b>1000</b>              | <b>QFN 3x3</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>4.0</b>           | <b>0.8</b>           | <b>24</b>            | <b>1000</b>              | <b>QFN 3x3</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>4.0</b>           | <b>0.8</b>           | <b>28</b>            | <b>1000</b>              | <b>QFN 3x3</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>4.0</b>           | <b>0.8</b>           | <b>24</b>            | <b>1000</b>              | <b>QFN 3x3</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>5.0</b>           | <b>0.8</b>           | <b>24</b>            | <b>1000</b>              | <b>QFN 3x3</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>5.0</b>           | <b>0.8</b>           | <b>24</b>            | <b>1000</b>              | <b>QFN 3x3</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>6.0</b>           | <b>0.8</b>           | <b>24</b>            | <b>1000</b>              | <b>QFN 3x3</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>6.0</b>           | <b>0.8</b>           | <b>24</b>            | <b>1000</b>              | <b>QFN 3x3</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>6.0</b>           | <b>0.8</b>           | <b>14</b>            | <b>1000</b>              | <b>QFN 3x3</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>8.0</b>           | <b>0.8</b>           | <b>24</b>            | <b>1000</b>              | <b>QFN 3x3</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>8.0</b>           | <b>0.8</b>           | <b>14</b>            | <b>1000</b>              | <b>QFN 3x3</b>   |
| 6.5                 | 28                  | 4.0                  | 0.6                  | 1.791                | 400                      | QFN 4x4          |
| <b>6.5</b>          | <b>28</b>           | <b>4.0</b>           | <b>0.9</b>           | <b>1.191</b>         | <b>400</b>               | <b>QFN 4x4</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>6.0</b>           | <b>0.6</b>           | <b>1.791</b>         | <b>400</b>               | <b>QFN 4x4</b>   |
| 6.5                 | 28                  | 8.0                  | 0.6                  | 1.791                | 400                      | QFN 4x4          |
| <b>6.5</b>          | <b>28</b>           | <b>8.0</b>           | <b>0.9</b>           | <b>1.191</b>         | <b>400</b>               | <b>QFN 4x4</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>10.0</b>          | <b>0.6</b>           | <b>1.791</b>         | <b>400</b>               | <b>QFN 4x4</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>12.0</b>          | <b>0.6</b>           | <b>1.791</b>         | <b>400</b>               | <b>QFN 4x4</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>12.0</b>          | <b>0.6</b>           | <b>1.791</b>         | <b>400</b>               | <b>QFN 4x4</b>   |
| 6.5                 | 28                  | 8.0                  | 0.8                  | 24.0                 | 1000                     | QFN 4x4          |
| <b>6.5</b>          | <b>28</b>           | <b>8.0</b>           | <b>0.8</b>           | <b>24.0</b>          | <b>1000</b>              | <b>QFN 4x4</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>8.0</b>           | <b>0.8</b>           | <b>14.0</b>          | <b>1000</b>              | <b>QFN 4x4</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>8.0</b>           | <b>0.8</b>           | <b>14.0</b>          | <b>1000</b>              | <b>QFN 4x4</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>10.0</b>          | <b>0.8</b>           | <b>24.0</b>          | <b>1000</b>              | <b>QFN 4x4</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>10.0</b>          | <b>0.8</b>           | <b>24.0</b>          | <b>1000</b>              | <b>QFN 4x4</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>10.0</b>          | <b>0.8</b>           | <b>24.0</b>          | <b>1000</b>              | <b>QFN 4x4</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>10.0</b>          | <b>0.8</b>           | <b>24.0</b>          | <b>1000</b>              | <b>QFN 4x4</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>10.0</b>          | <b>0.8</b>           | <b>14.0</b>          | <b>1000</b>              | <b>QFN 4x4</b>   |
| 6.5                 | 28                  | 8.0                  | 0.8                  | 24.0                 | 1000                     | QFN 4x4          |
| <b>6.5</b>          | <b>28</b>           | <b>12.0</b>          | <b>0.6</b>           | <b>24.0</b>          | <b>1000</b>              | <b>QFN 4x4</b>   |
| <b>6.5</b>          | <b>28</b>           | <b>12.0</b>          | <b>0.8</b>           | <b>24.0</b>          | <b>1000</b>              | <b>QFN 4x4</b>   |
| 2.7                 | 28.0                | 6.0                  | 0.8                  | 24.0                 | 1000                     | QFN 4x4          |
| 2.7                 | 28.0                | 6.0                  | 0.8                  | 24.0                 | 1000                     | QFN 4x4          |
| 2.7                 | 28.0                | 8.0                  | 0.8                  | 24.0                 | 1000                     | QFN 4x4          |

## DC-DC Buck Regulators – Synchronous EZBuck™ Family (Continued)

| Part Number   |     | Description                                                              | PGOOD | Soft Start              |
|---------------|-----|--------------------------------------------------------------------------|-------|-------------------------|
| AOZ2261AQI-10 | NEW | 8A COT EZBuck Regulator                                                  | Yes   | Adjustable              |
| AOZ2261AQI-15 | NEW | 8A COT EZBuck Regulator                                                  | Yes   | Adjustable              |
| AOZ2261AQI-18 | NEW | 8A COT EZBuck Regulator                                                  | Yes   | Adjustable              |
| AOZ2262AQI-10 | NEW | 1A COT EZBuck Regulator                                                  | Yes   | Adjustable              |
| AOZ2262AQI-15 | NEW | 1A COT EZBuck Regulator                                                  | Yes   | Adjustable              |
| AOZ2262AQI-18 | NEW | 10A COT EZBuck Regulator                                                 | Yes   | Adjustable              |
| AOZ2263AQI-10 | NEW | 12A COT EZBuck Regulator                                                 | Yes   | Adjustable              |
| AOZ2263AQI-15 | NEW | 12A COT EZBuck Regulator                                                 | Yes   | Adjustable              |
| AOZ2263AQI-18 | NEW | 12A COT EZBuck Regulator                                                 | Yes   | Adjustable              |
| AOZ2264QI-10  |     | 15A COT EZBuck Regulator                                                 | Yes   | Adjustable              |
| AOZ2367QI-11  | NEW | 20A COT EZBuck Regulator                                                 | Yes   | Adjustable              |
| AOZ2368QI-11  | NEW | 25A COT EZBuck Regulator                                                 | Yes   | Adjustable              |
| AOZ6604PI     |     | 4A EZBuck with External Soft-Start/Compensation                          | No    | External - Programmable |
| AOZ6605PI     |     | 5A EZBuck with External Soft-Start                                       | No    | External - Programmable |
| AOZ6605PI-1   | NEW | 5A Sync Buck with External Soft Start                                    | No    | External - Programmable |
| AOZ6606PI     | NEW | 6A Sync Buck with External Soft Start                                    | No    | External - Programmable |
| AOZ6622DI     |     | 2A EZBuck with Internal Soft-Start/Compensation                          | No    | Internal - 1.5ms        |
| AOZ6623DI     |     | 3A EZBuck with Internal Soft-Start/Compensation                          | No    | Internal - 1.5ms        |
| AOZ6643DI     |     | 3A EZBuck with Internal Soft-Start                                       | No    | Internal - 4ms          |
| AOZ6662DI     | NEW | 2A EZBuck with Internal Soft-Start/External Compensation                 | No    | Internal - 3.5ms        |
| AOZ6662DI-01  | NEW | 2A EZBuck with Internal Soft-Start/External Compensation/Light Load Mode | No    | Internal - 3.5ms        |
| AOZ6663DI     | NEW | 3A EZBuck with Internal Soft-Start/External Compensation                 | No    | Internal - 3.5ms        |
| AOZ6663DI-01  | NEW | 3A EZBuck with Internal Soft-Start/Compensation                          | No    | Internal - 3.5ms        |
| AOZ6682CI     | NEW | 2A EZBuck with Internal Soft-Start/Compensation                          | No    | Internal - 2.8ms        |
| AOZ6683CI     | NEW | 3A EZBuck with Internal Soft-Start/Compensation/Light Load Mode          | No    | Internal - 2.8ms        |
| AOZ6762DI     | NEW | 2A 1.25MHz EZBuck with Internal Soft-Start/External Compensation         | No    | Internal - 3.5ms        |
| AOZ6763DI     | NEW | 3A 1.25MHz EZBuck with Internal Soft-Start/External Compensation         | No    | Internal - 3.5ms        |

| Min V <sub>IN</sub><br>(V) | Max V <sub>IN</sub><br>(V) | Max I <sub>OUT</sub><br>(A) | Min V <sub>OUT</sub><br>(V) | Max V <sub>OUT</sub><br>(V) | Operating Freq.<br>(kHz) | Package          |
|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------|------------------|
| 4.0                        | 28.0                       | 8.0                         | 0.8                         | 24.0                        | 1000                     | QFN 4x4          |
| 4.0                        | 28.0                       | 8.0                         | 0.8                         | 24.0                        | 1000                     | QFN 4x4          |
| 4.0                        | 28.0                       | 8.0                         | 0.8                         | 24.0                        | 1000                     | QFN 4x4          |
| 4.0                        | 28.0                       | 10.0                        | 0.8                         | 24.0                        | 1000                     | QFN 4x4          |
| 4.0                        | 28.0                       | 12.0                        | 0.8                         | 24.0                        | 1000                     | QFN 4x4          |
| 4.0                        | 28.0                       | 10.0                        | 0.8                         | 24.0                        | 1000                     | QFN 4x4          |
| 4.0                        | 28.0                       | 12.0                        | 0.8                         | 24.0                        | 1000                     | QFN 4x4          |
| 4.0                        | 28.0                       | 12.0                        | 0.8                         | 24.0                        | 1000                     | QFN 4x4          |
| 4.0                        | 28.0                       | 12.0                        | 0.8                         | 24.0                        | 1000                     | QFN 4x4          |
| 2.7                        | 24.0                       | 15.0                        | 0.8                         | 20.0                        | 1000                     | QFN 4x4          |
| 4.5                        | 24                         | 20                          | 0.6                         | 20                          | 1000                     | QFN 5x5          |
| 4.5                        | 24                         | 25                          | 0.6                         | 20                          | 1000                     | QFN 5x5          |
| 4.5                        | 18.0                       | 4.0                         | 0.6                         | 15.3                        | 600                      | Exposed Pad SO-8 |
| 4.5                        | 18.0                       | 5.0                         | 0.6                         | 15.3                        | 650                      | Exposed Pad SO-8 |
| 4.5                        | 18.0                       | 5.0                         | 0.6                         | 15.3                        | 600                      | Exposed Pad SO-8 |
| 4.5                        | 18.0                       | 5.0                         | 0.6                         | 15.3                        | 600                      | Exposed Pad SO-8 |
| 4.5                        | 18.0                       | 2.0                         | 0.8                         | 15.3                        | 550                      | DFN 3x3          |
| 4.5                        | 18.0                       | 3.0                         | 0.8                         | 15.3                        | 550                      | DFN 3X3          |
| 4.5                        | 18.0                       | 3.0                         | 0.8                         | 15.3                        | 500                      | DFN 3x3          |
| 4.5                        | 18.0                       | 2.0                         | 0.6                         | 15.3                        | 750                      | DFN 3x3          |
| 4.5                        | 18.0                       | 2.0                         | 0.6                         | 15.3                        | 750                      | DFN 3x3          |
| 4.5                        | 18.0                       | 3.0                         | 0.6                         | 15.3                        | 750                      | DFN 3x3          |
| 4.5                        | 18.0                       | 3.0                         | 0.6                         | 15.3                        | 750                      | DFN 3x3          |
| 4.5                        | 18.0                       | 3.0                         | 0.8                         | 15.3                        | 750                      | TSOT23           |
| 4.5                        | 18.0                       | 3.0                         | 0.8                         | 15.3                        | 750                      | TSOT23           |
| 4.5                        | 18.0                       | 2.0                         | 0.6                         | 15.3                        | 1250                     | DFN 3x3          |
| 4.5                        | 18.0                       | 2.0                         | 0.6                         | 15.3                        | 1250                     | DFN 3x3          |

## DC-DC Buck Regulators – Non Synchronous EZBuck™ Family

| Part Number | Description                                               | Integrated Schottky | Soft Start (ms)         |
|-------------|-----------------------------------------------------------|---------------------|-------------------------|
| AOZ1015AI   | 1.5A EZBuck Regulator                                     | Yes                 | Internal - 2.2 ms       |
| AOZ1016AI   | 2A EZBuck Regulator                                       | Yes                 | Internal - 2.2 ms       |
| AOZ1083CI   | 1.2A EZBuck LED Driver                                    | No                  | Internal - 0.4 ms       |
| AOZ1084DI   | 1.2A EZBuck LED Driver                                    | No                  | Internal - 0.6 ms       |
| AOZ1210AI   | 2A, 4.5V to 27V EZBuck Regulator                          | No                  | Internal - 4.0 ms       |
| AOZ1212AI   | 3A, 4.5V to 27V EZBuck Regulator                          | No                  | Internal - 6.0 ms       |
| AOZ1212DI   | 3A, 4.5V to 27V EZBuck Regulator                          | No                  | Internal - 6.0 ms       |
| AOZ1280CI   | 1.2A, 3V to 26V EZBuck Regulator                          | No                  | Internal - 0.4 ms       |
| AOZ1281DI   | 1.8A, 3V to 26V EZBuck Regulator                          | No                  | Internal - 0.4 ms       |
| AOZ1282CI   | 1.2A, 4.5V to 36V EZBuck Regulator                        | No                  | Internal - 1.5 ms       |
| AOZ1282CI-1 | 600 mA, 4.5V to 36V EZBuck Regulator                      | No                  | Internal - 0.6 ms       |
| AOZ1282CI-2 | 600 mA, 4.5V to 36V EZBuck Regulator with High Duty Cycle | No                  | Internal - 0.6 ms       |
| AOZ1282DI   | 1.2A, 4.5V to 36V EZBuck Regulator                        | No                  | Internal - 1.5 ms       |
| AOZ1283PI   | 2.5A, 3V to 36V EZBuck Regulator                          | No                  | External - Programmable |
| AOZ1284PI   | 4A, 3V to 36V EZBuck Regulator                            | No                  | External - Programmable |

## Smart Current Limited Load Switches – ECPower™ Family

| Part Number                    | Description                                                                 | Ops V <sub>IN</sub> (V) | Absolute Max V <sub>IN</sub> and V <sub>OUT</sub> (V) |
|--------------------------------|-----------------------------------------------------------------------------|-------------------------|-------------------------------------------------------|
| <b>AOZ1327DI-01</b> <i>NEW</i> | <b>20V/5A ECPower™ Protection Switch with True Reverse-Current Blocking</b> | <b>2.4 - 22</b>         | <b>28</b>                                             |
| <b>AOZ1327DI-02</b> <i>NEW</i> | <b>20V/5A ECPower™ Protection Switch with True Reverse-Current Blocking</b> | <b>2.4 - 22</b>         | <b>28</b>                                             |
| AOZ1353DI-01                   | 5V/3A ECPower™ with True Reverse-Current Blocking                           | 3.4 - 5.5               | 28                                                    |
| AOZ1353DI-02                   | 5V/3A ECPower™ with True Reverse-Current Blocking                           | 3.4 - 5.5               | 28                                                    |
| <b>AOZ1353DI-03</b> <i>NEW</i> | <b>5V/3A ECPower™ with True Reverse-Current Blocking</b>                    | <b>3.4 - 5.5</b>        | <b>28</b>                                             |
| <b>AOZ1353DI-04</b> <i>NEW</i> | <b>5V/3A ECPower™ with True Reverse-Current Blocking</b>                    | <b>3.4 - 5.5</b>        | <b>28</b>                                             |
| <b>AOZ1353LI-01</b> <i>NEW</i> | <b>5V/3A ECPower™ Protection Switch with True Reverse-Current Blocking</b>  | <b>3.4 - 5.5</b>        | <b>28</b>                                             |
| <b>AOZ1353LI-02</b> <i>NEW</i> | <b>5V/3A ECPower™ Protection Switch with True Reverse-Current Blocking</b>  | <b>3.4 - 5.5</b>        | <b>28</b>                                             |
| <b>AOZ1353LI-03</b> <i>NEW</i> | <b>5V/3A ECPower™ Protection Switch with True Reverse-Current Blocking</b>  | <b>3.4 - 5.5</b>        | <b>28</b>                                             |
| <b>AOZ1353LI-04</b> <i>NEW</i> | <b>5V/3A ECPower™ Protection Switch with True Reverse-Current Blocking</b>  | <b>3.4 - 5.5</b>        | <b>28</b>                                             |
| <b>AOZ1356LI-01</b> <i>NEW</i> | <b>5V/3A ECPower™ Protection Switch Supporting USB PD Fast Role Swap</b>    | <b>3.4 - 5.5</b>        | <b>28</b>                                             |
| <b>AOZ1356LI-02</b> <i>NEW</i> | <b>5V/3A ECPower™ Protection Switch Supporting USB PD Fast Role Swap</b>    | <b>3.4 - 5.5</b>        | <b>28</b>                                             |
| <b>AOZ1356LI-05</b> <i>NEW</i> | <b>5V/3A ECPower™ Protection Switch Supporting USB PD Fast Role Swap</b>    | <b>3.6 - 5.3</b>        | <b>28</b>                                             |
| <b>AOZ1356LI-06</b> <i>NEW</i> | <b>5V/3A ECPower™ Protection Switch Supporting USB PD Fast Role Swap</b>    | <b>3.6 - 5.3</b>        | <b>28</b>                                             |
| AOZ1375DI-01                   | 20V/5A ECPower™ Bidirectional Load Switch                                   | 3.4 - 23                | 28                                                    |
| AOZ1375DI-02                   | 20V/5A ECPower™ Bidirectional Load Switch                                   | 3.4 - 23                | 28                                                    |
| AOZ1376DI-01                   | 20V/5A ECPower™ Protection Switch with True Reverse-Current Blocking        | 3.4 - 22                | 28                                                    |
| AOZ1376DI-02                   | 20V/5A ECPower™ Protection Switch with True ReverseCurrent Blocking         | 3.4 - 22                | 28                                                    |

| Min $V_{IN}$<br>(V) | Max $V_{IN}$<br>(V) | Max $I_{OUT}$<br>(A) | Min $V_{OUT}$<br>(V) | Max $V_{OUT}$<br>(V) | Operating Freq.<br>(kHz) | Package |
|---------------------|---------------------|----------------------|----------------------|----------------------|--------------------------|---------|
| 4.5                 | 16.0                | 1.5                  | 0.8                  | 16.0                 | 500                      | SO-8    |
| 4.5                 | 16.0                | 2.0                  | 0.8                  | 16.0                 | 500                      | SO-8    |
| 3.0                 | 26.0                | 1.2                  | 0.28                 | 23.0                 | 1500                     | SOT-23  |
| 4.5                 | 36.0                | 1.2                  | 0.16                 | 30.0                 | 450                      | DFN 2x2 |
| 4.5                 | 27.0                | 2.0                  | 0.8                  | 23.0                 | 370                      | SO-8    |
| 4.5                 | 27.0                | 3.0                  | 0.8                  | 23.0                 | 370                      | SO-8    |
| 4.5                 | 27.0                | 3.0                  | 0.8                  | 23.0                 | 370                      | DFN 5x4 |
| 3.0                 | 26.0                | 1.2                  | 0.8                  | 26.0                 | 1500                     | SOT-23  |
| 3.0                 | 26.0                | 1.8                  | 0.8                  | 22.0                 | 1500                     | DFN 2x2 |
| 4.5                 | 36.0                | 1.2                  | 0.8                  | 36.0                 | 450                      | SOT-23  |
| 4.5                 | 36.0                | 0.6                  | 0.8                  | 36.0                 | 1000                     | SOT-23  |
| 4.5                 | 36.0                | 0.6                  | 0.8                  | 36.0                 | 1000                     | SOT-23  |
| 4.5                 | 36.0                | 1.2                  | 0.8                  | 36.0                 | 450                      | DFN 2x2 |
| 3.0                 | 36.0                | 2.5                  | 0.8                  | 30.0                 | 2000                     | DFN 3x3 |
| 3.0                 | 36.0                | 4.0                  | 0.8                  | 16.0                 | 2000                     | DFN 3x3 |

| Max Current<br>(A) | Current Flow    | Fast Role Swap | OVP        | Current Limit | RCB                | Fault Response | $R_{DS(ON)}$<br>(m $\Omega$ )<br>(Typ) | Package        |
|--------------------|-----------------|----------------|------------|---------------|--------------------|----------------|----------------------------------------|----------------|
| 10.0               | Sink            | —              | Adjustable | —             | $V_{OUT} > V_{IN}$ | Auto Restart   | 20                                     | DFN 3x3        |
| 10.0               | Sink            | —              | Adjustable | —             | $V_{OUT} > V_{IN}$ | Latch Off      | 20                                     | DFN 3x3        |
| 3.5                | Source          | No             | Fixed      | Adjustable    | $V_{OUT} > V_{IN}$ | Auto Restart   | 40                                     | DFN 3x3        |
| 3.5                | Source          | No             | Fixed      | Adjustable    | $V_{OUT} > V_{IN}$ | Latch Off      | 40                                     | DFN 3x3        |
| 3.5                | Source          | No             | Fixed      | Adjustable    | $V_{OUT} > V_{IN}$ | Auto Restart   | 40                                     | DFN 3x3        |
| 3.5                | Source          | No             | Fixed      | Adjustable    | $V_{OUT} > V_{IN}$ | Latch Off      | 40                                     | DFN 3x3        |
| 3.5                | Source          | No             | Fixed      | Adjustable    | $V_{OUT} > V_{IN}$ | Auto Restart   | 32                                     | WLCSP-12 Bumps |
| 3.5                | Source          | No             | Fixed      | Adjustable    | $V_{OUT} > V_{IN}$ | Latch Off      | 32                                     | WLCSP-12 Bumps |
| 3.5                | Source          | No             | Fixed      | Adjustable    | $V_{OUT} > V_{IN}$ | Auto Restart   | 32                                     | WLCSP-12 Bumps |
| 3.5                | Source          | No             | Fixed      | Adjustable    | $V_{OUT} > V_{IN}$ | Latch Off      | 32                                     | WLCSP-12 Bumps |
| 3.5                | Source          | Yes            | Fixed      | Adjustable    | $V_{OUT} > V_{IN}$ | Auto Restart   | 34                                     | WLCSP-12 Bumps |
| 3.5                | Source          | Yes            | Fixed      | Adjustable    | $V_{OUT} > V_{IN}$ | Latch Off      | 34                                     | WLCSP-12 Bumps |
| 3.5                | Source          | Yes            | Fixed      | Adjustable    | $V_{OUT} > V_{IN}$ | Auto Restart   | 34                                     | WLCSP-12 Bumps |
| 3.5                | Source          | Yes            | Fixed      | Adjustable    | $V_{OUT} > V_{IN}$ | Latch Off      | 34                                     | WLCSP-12 Bumps |
| 6.0                | Source and Sink | No             | Adjustable | Adjustable    | EN = L             | Auto Restart   | 20                                     | DFN 3x3        |
| 6.0                | Source and Sink | No             | Adjustable | Adjustable    | EN = L             | Latch Off      | 20                                     | DFN 3x3        |
| 5.0                | Sink            | —              | —          | —             | $V_{OUT} > V_{IN}$ | Auto Restart   | 20                                     | DFN 3x3        |
| 5.0                | Sink            | —              | —          | —             | $V_{OUT} > V_{IN}$ | Latch Off      | 20                                     | DFN 3x3        |

## DrMOS Power Modules

| Part Number      |            | Min $V_{IN}$ (V) | Max $V_{IN}$ (V) | DC Current (A) | Application         | Package          |
|------------------|------------|------------------|------------------|----------------|---------------------|------------------|
| AOZ5038QI        |            | 4.5              | 25.0             | 50             | Notebook            | QFN 5x5          |
| AOZ5039QI        |            | 4.5              | 25.0             | 45             | Notebook            | QFN 5x5          |
| AOZ5131QI        |            | 4.5              | 20.0             | 50             | NVDC Notebook       | QFN 5x5          |
| AOZ5237QI        |            | 4.5              | 25.0             | 45             | Notebook            | QFN 5x5          |
| AOZ5239QI        |            | 4.5              | 25.0             | 50             | Notebook            | QFN 5x5          |
| <b>AOZ5332QI</b> | <b>NEW</b> | <b>2.5</b>       | <b>25.0</b>      | <b>50</b>      | <b>Graphic Card</b> | QFN 5x5          |
| <b>AOZ5339QI</b> | <b>NEW</b> | <b>2.5</b>       | <b>25.0</b>      | <b>50</b>      | <b>Graphic Card</b> | <b>QFN 5x5</b>   |
| <b>AOZ5537QI</b> | <b>NEW</b> | <b>4.5</b>       | <b>25.0</b>      | <b>50</b>      | <b>Notebook</b>     | QFN 5x5          |
| <b>AOZ5636QI</b> | <b>NEW</b> | <b>4.5</b>       | <b>20.0</b>      | <b>50</b>      | <b>Graphic Card</b> | <b>QFN 5x5</b>   |
| AOZ5048QI        |            | 4.5              | 25.0             | 35             | Ultrabook           | QFN 3.5x5        |
| <b>AOZ5547QI</b> | <b>NEW</b> | <b>4.5</b>       | <b>25.0</b>      | <b>35</b>      | <b>Ultrabook</b>    | <b>QFN 3.5x5</b> |
| AOZ5166QI        |            | 4.5              | 16.0             | 60             | Server              | QFN 6x6          |
| AOZ5166QI-01     |            | 4.5              | 16.0             | 60             | Server              | QFN 6x6          |

## Smart Load Switches – EZPower™ Family

| Part Number       |            | Description                            | $V_{IN}$ (V)   | Turn On Rise Time ( $T_r$ )      |
|-------------------|------------|----------------------------------------|----------------|----------------------------------|
| <b>AOZ1331ADI</b> | <b>NEW</b> | <b>Dual Channel Smart Load Switch</b>  | <b>0.5-5.5</b> | <b>1705<math>\mu</math>s</b>     |
| AOZ1320CI         |            | Slew Rate Controlled Smart Load Switch | 1.8 - 5.5      | 100 $\mu$ s, 0.5 $\mu$ s, 1.0 ms |
| AOZ1360AIL        |            | EZPower™ Protected Smart Load Switch   | 5.5 - 28       | Adjustable                       |
| AOZ1360DIL        |            | EZPower™ Protected Smart Load Switch   | 5.5 - 28       | Adjustable                       |
| AOZ1361DI-01      |            | EZPower™ Protected Smart Load Switch   | 5.5 - 28       | Adjustable                       |
| AOZ1361DI-02      |            | EZPower™ Protected Smart Load Switch   | 5.5 - 28       | Adjustable                       |
| AOZ1363DI         |            | EZPower™ Protected Smart Load Switch   | 5.0 - 16       | 16 $\mu$ s                       |
| AOZ1334DI-01      |            | Single Channel Smart Load Switch       | 0.8 - 5.5      | 10 $\mu$ s                       |
| AOZ1334DI-02      |            | Single Channel Smart Load Switch       | 0.8 - 5.5      | 0.5 ms                           |
| AOZ1336DI         |            | Single Channel Smart Load Switch       | 0.8 - 5.5      | Adjustable                       |

## Power Factor Correction (PFC)

| Part Number | Description                             | PFC Mode | Freq. Operation | Control Mode |
|-------------|-----------------------------------------|----------|-----------------|--------------|
| AOZ7111AI   | Critical Conduction Mode PFC Controller | CRM      | Variable        | Voltage      |

| Channel  | Enable                     | Current Limit (A) | Fault Latch | R <sub>DS(ON)</sub> (mΩ) (Typ) | Package        |
|----------|----------------------------|-------------------|-------------|--------------------------------|----------------|
| <b>2</b> | <b>CMOS/TTL Compatible</b> | <b>6.0</b>        | <b>Yes</b>  | <b>20</b>                      | <b>DFN 3x2</b> |
| 1        | CMOS/TTL Compatible        | No                | Yes         | 75                             | SOT-23         |
| 1        | CMOS/TTL Compatible        | Adjustable        | Yes         | 35                             | SO-8           |
| 1        | CMOS/TTL Compatible        | Adjustable        | Yes         | 35                             | DFN 4x4        |
| 1        | CMOS/TTL Compatible        | Adjustable        | No          | 35                             | DFN 4x4        |
| 1        | CMOS/TTL Compatible        | Adjustable        | Yes         | 35                             | DFN 4x4        |
| 1        | CMOS/TTL Compatible        | 11.0              | Yes         | 23                             | DFN 3x3        |
| 1        | CMOS/TTL Compatible        | 10.0              | No          | 5                              | DFN 3x3        |
| 1        | CMOS/TTL Compatible        | 10.0              | No          | 5                              | DFN 3x3        |
| 1        | CMOS/TTL Compatible        | 4.0               | No          | 27                             | DFN 2x2        |

| Topology | Max Freq. Limit (Typ.) KHz | V <sub>CC</sub> Max (V) | Drive Capability (mA) | ULVO (V) | OVP Latch | Min On-Time (Typ.) ns | Package |
|----------|----------------------------|-------------------------|-----------------------|----------|-----------|-----------------------|---------|
| Step-up  | 350                        | 20.0                    | +300/-800             | 9.5-12   | Yes       | 450                   | SO-8    |

## TRANSIENT VOLTAGE SUPPRESSORs (TVS)

AOS provides a family of high-surge power, high-current surge, ultra-low capacitance Transient Voltage Suppressor (TVS), and Diode Array-Thunderbolt, SATA and Gigabit Ethernet ports. These products may be used to meet the ESD

### High-Surge Power TVS

| Part Number  | Description                | IEC 61000-4-2 (ESD) |          | Protected Lines |
|--------------|----------------------------|---------------------|----------|-----------------|
|              |                            | Contact (kV)        | Air (kV) |                 |
| AOZ8310DI-02 | Surge High Power TVS Diode | ± 30                | ± 30     | 1               |
| AOZ8310DI-05 | Surge High Power TVS Diode | ± 30                | ± 30     | 1               |
| AOZ8310DI-08 | Surge High Power TVS Diode | ± 30                | ± 30     | 1               |
| AOZ8310DI-09 | Surge High Power TVS Diode | ± 30                | ± 30     | 1               |
| AOZ8310DI-12 | Surge High Power TVS Diode | ± 30                | ± 30     | 1               |
| AOZ8310DI-18 | Surge High Power TVS Diode | ± 30                | ± 30     | 1               |
| AOZ8310DI-20 | Surge High Power TVS Diode | ± 30                | ± 30     | 1               |
| AOZ8310DI-26 | Surge High Power TVS Diode | ± 30                | ± 30     | 1               |
| AOZ8310DI-36 | Surge High Power TVS Diode | ± 30                | ± 30     | 1               |
| AOZ8320DI-02 | Surge High Power TVS Diode | ± 30                | ± 30     | 1               |
| AOZ8320DI-05 | Surge High Power TVS Diode | ± 30                | ± 30     | 1               |
| AOZ8320DI-08 | Surge High Power TVS Diode | ± 30                | ± 30     | 1               |
| AOZ8320DI-09 | Surge High Power TVS Diode | ± 30                | ± 30     | 1               |
| AOZ8320DI-12 | Surge High Power TVS Diode | ± 30                | ± 30     | 1               |
| AOZ8320DI-18 | Surge High Power TVS Diode | ± 30                | ± 30     | 1               |
| AOZ8320DI-20 | Surge High Power TVS Diode | ± 30                | ± 30     | 1               |
| AOZ8320DI-36 | Surge High Power TVS Diode | ± 30                | ± 30     | 1               |

### High-Current Surge TVS

| Part Number   | Description                           | IEC 61000-4-2 (ESD) |          | Protected Lines |
|---------------|---------------------------------------|---------------------|----------|-----------------|
|               |                                       | Contact (kV)        | Air (kV) |                 |
| AOZ8302ACI-05 | TVS Diode Array                       | ± 30                | ± 30     | 2               |
| AOZ8302ACI-12 | TVS Diode Array                       | ± 30                | ± 30     | 2               |
| AOZ8300CI-03  | Ultra-Low Capacitance TVS Diode Array | ± 30                | ± 30     | 4               |
| AOZ8318DI     | Ultra-Low Capacitance TVS Diode Array | ± 30                | ± 30     | 4               |
| AOZ8328DI     | Ultra-Low Capacitance TVS Diode Array | ± 30                | ± 30     | 4               |
| AOZ8331DI-03  | Ultra-Low Capacitance TVS Diode Array | ± 30                | ± 30     | 4               |
| AOZ8915CI     | Ultra-Low Capacitance TVS Diode Array | ± 24                | ± 30     | 4               |

immunity requirement of products that are designed for ESD protection of high-speed interfaces like HDMI2.0, USB3.1, IEEE1394, IEC61000-4-2, Level 4 for mobile, digital consumer, networking, and computing applications.

| Reverse Working Voltage<br>$V_{RWM}$ Max (V) | IEC 61000-4-5<br>(Peak Pluse Current)<br>$I_{pp}$ max. (A) | IEC 61000-4-5 (8/20us)<br>(Peak Pluse Power)<br>$P_{pp}$ max. (W) | Channel Input Capacitance<br>I/O - GND Typ. (pF) | Package       |
|----------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------|---------------|
| 2.5                                          | 75                                                         | 1100                                                              | 100                                              | DFN 1.6 x 1.0 |
| 5                                            | 85                                                         | 1500                                                              | 675                                              | DFN 1.6 x 1.0 |
| 8                                            | 70                                                         | 1500                                                              | 425                                              | DFN 1.6 x 1.0 |
| 9                                            | 65                                                         | 1500                                                              | 385                                              | DFN 1.6 x 1.0 |
| 12                                           | 45                                                         | 1500                                                              | 275                                              | DFN 1.6 x 1.0 |
| 18                                           | 35                                                         | 1200                                                              | 200                                              | DFN 1.6 x 1.0 |
| 20                                           | 32                                                         | 1200                                                              | 165                                              | DFN 1.6 x 1.0 |
| 26                                           | 25                                                         | 1200                                                              | 150                                              | DFN 1.6 x 1.0 |
| 36                                           | 22                                                         | 1500                                                              | 130                                              | DFN 1.6 x 1.0 |
| 2.5                                          | 75                                                         | 1100                                                              | 100                                              | DFN 1.6 x 0.8 |
| 5                                            | 85                                                         | 1500                                                              | 675                                              | DFN 1.6 x 0.8 |
| 8                                            | 70                                                         | 1500                                                              | 425                                              | DFN 1.6 x 0.8 |
| 9                                            | 65                                                         | 1500                                                              | 385                                              | DFN 1.6 x 0.8 |
| 12                                           | 45                                                         | 1500                                                              | 275                                              | DFN 1.6 x 0.8 |
| 18                                           | 35                                                         | 1200                                                              | 200                                              | DFN 1.6 x 0.8 |
| 20                                           | 32                                                         | 1200                                                              | 165                                              | DFN 1.6 x 0.8 |
| 36                                           | 22                                                         | 1500                                                              | 130                                              | DFN 1.6 x 0.8 |

| Reverse Working Voltage<br>$V_{RWM}$ Max (V) | IEC 61000-4-5<br>(Lightning)<br>(A) | Channel Input Capacitance<br>I/O - GND Typ. (pF) | Channnel Clamp Voltage<br>( $I_{pp} = 5A$ ) $V_{CL}$ Max. (V) | Package     |
|----------------------------------------------|-------------------------------------|--------------------------------------------------|---------------------------------------------------------------|-------------|
| 5.0                                          | 32                                  | 20                                               | 14.0 ( $I_{pp} = 15A$ )                                       | SOT-23      |
| 12.0                                         | 24                                  | 20                                               | 179.0 ( $I_{pp} = 15A$ )                                      | SOT-23      |
| 3.3                                          | 25                                  | 2.5                                              | 2.6                                                           | SOT-23      |
| 2.5                                          | 25                                  | 3.5                                              | 3.5                                                           | DFN 2.6x2.6 |
| 2.5                                          | 32                                  | 2.8                                              | 4.5                                                           | DFN 3.0x2.0 |
| 3.3                                          | 35                                  | 85                                               | 4.5                                                           | DFN 1.0x0.6 |
| 5.0                                          | 12                                  | 0.5                                              | 12.0                                                          | SOT-23      |

## Ultra-Low Capacitance TVS

| Part Number   | Description                           | IEC 61000-4-2 (ESD) |          | Protected Lines |
|---------------|---------------------------------------|---------------------|----------|-----------------|
|               |                                       | Contact (kV)        | Air (kV) |                 |
| AOZ8858DI-03  | Ultra-Low Capacitance TVS Diode Array | ± 30                | ± 30     | 1               |
| AOZ8001DI     | Ultra-Low Capacitance TVS Diode Array | ± 8                 | ± 15     | 2               |
| AOZ8101       | Ultra-Low Capacitance TVS Diode Array | ± 30                | ± 30     | 2               |
| AOZ8802ADI    | Ultra-Low Capacitance TVS Diode Array | ± 15                | ± 15     | 2               |
| AOZ8882DI-05  | Ultra-Low Capacitance TVS Diode Array | ± 15                | ± 15     | 2               |
| AOZ8000CI     | Ultra-Low Capacitance TVS Diode Array | ± 8                 | ± 15     | 4               |
| AOZ8102DI     | Ultra-Low Capacitance TVS Diode Array | ± 20                | ± 20     | 4               |
| AOZ8804ADI    | Ultra-Low Capacitance TVS Diode Array | ± 15                | ± 15     | 4               |
| AOZ8808DI-03  | Ultra-Low Capacitance TVS Diode Array | ± 15                | ± 15     | 4               |
| AOZ8808DI-05  | Ultra-Low Capacitance TVS Diode Array | ± 15                | ± 15     | 4               |
| AOZ8809DI-03  | Ultra-Low Capacitance TVS Diode Array | ± 15                | ± 15     | 4               |
| AOZ8809DI-05  | Ultra-Low Capacitance TVS Diode Array | ± 15                | ± 15     | 4               |
| AOZ8809ADI-03 | Ultra-Low Capacitance TVS Diode Array | ± 15                | ± 15     | 4               |
| AOZ8809ADI-05 | Ultra-Low Capacitance TVS Diode Array | ± 15                | ± 15     | 4               |
| AOZ8829DI-03  | Ultra-Low Capacitance TVS Diode Array | ± 30                | ± 30     | 4               |
| AOZ8839DI-03  | Ultra-Low Capacitance TVS Diode Array | ± 12                | ± 15     | 4               |
| AOZ8839DI-05  | Ultra-Low Capacitance TVS Diode Array | ± 12                | ± 15     | 4               |
| AOZ8844DT-05  | Ultra-Low Capacitance TVS Diode Array | ± 15                | ± 20     | 4               |
| AOZ8903CI     | Ultra-Low Capacitance TVS Diode Array | ± 15                | ± 20     | 4               |
| AOZ8904CIL    | Ultra-Low Capacitance TVS Diode Array | ± 24                | ± 24     | 4               |
| AOZ8905CI     | Ultra-Low Capacitance TVS Diode Array | ± 8                 | ± 15     | 4               |
| AOZ8906CI     | Ultra-Low Capacitance TVS Diode Array | ± 15                | ± 20     | 4               |
| AOZ8806DI-03  | Ultra-Low Capacitance TVS Diode Array | ± 15                | ± 15     | 6               |
| AOZ8806DI-05  | Ultra-Low Capacitance TVS Diode Array | ± 15                | ± 15     | 6               |
| AOZ8807DI-03  | Ultra-Low Capacitance TVS Diode Array | ± 15                | ± 15     | 6               |
| AOZ8807DI-05  | Ultra-Low Capacitance TVS Diode Array | ± 15                | ± 15     | 6               |
| AOZ8849DI-03  | Ultra-Low Capacitance TVS Diode Array | ± 12                | ± 15     | 8               |
| AOZ8849DI-05  | Ultra-Low Capacitance TVS Diode Array | ± 12                | ± 15     | 8               |
| AOZ8312DI     | Ultra-Low Capacitance TVS Diode Array | ± 30                | ± 30     | 12              |

## Diode Arrays

| Part Number   | Description                                      | IEC 61000-4-2 (ESD) |          | Protected Lines |
|---------------|--------------------------------------------------|---------------------|----------|-----------------|
|               |                                                  | Contact (kV)        | Air (kV) |                 |
| AOZ8131DI     | Ultra-Low Capacitance Bidirectional Single Diode | ± 24                | ± 24     | 1               |
| AOZ8211DI-02  | Low Capacitance Unidirectional Single Diode      | ± 30                | ± 30     | 1               |
| AOZ8211DI-03  | Low Capacitance Unidirectional Single Diode      | ± 30                | ± 30     | 1               |
| AOZ8211DI-05  | Low Capacitance Unidirectional Single Diode      | ± 28                | ± 28     | 1               |
| AOZ8211DI-12  | Low Capacitance Unidirectional Single Diode      | ± 28                | ± 28     | 1               |
| AOZ8211DI-24  | Low Capacitance Unidirectional Single Diode      | ± 18                | ± 15     | 1               |
| AOZ8231ADI-02 | Low Capacitance Bidirectional Single Diode       | ± 30                | ± 30     | 1               |
| AOZ8231ADI-03 | Low Capacitance Bidirectional Single Diode       | ± 30                | ± 30     | 1               |
| AOZ8231ADI-05 | Low Capacitance Bidirectional Single Diode       | ± 30                | ± 30     | 1               |
| AOZ8231ADI-08 | Low Capacitance Bidirectional Single Diode       | ± 30                | ± 30     | 1               |
| AOZ8231ADI-12 | Low Capacitance Bidirectional Single Diode       | ± 30                | ± 30     | 1               |
| AOZ8231ADI-24 | Low Capacitance Bidirectional Single Diode       | ± 15                | ± 18     | 1               |
| AOZ8231BDI-08 | Low Capacitance Bidirectional Single Diode       | ± 18                | ± 18     | 1               |

| Reverse Working Voltage<br>$V_{RWM}$ Max. (V) | Channel Input Capacitance |                     | Channel Clamp Voltage<br>( $I_{pp} = 5A$ ) $V_{CL}$ Max. (V) | Package      |
|-----------------------------------------------|---------------------------|---------------------|--------------------------------------------------------------|--------------|
| 3.3                                           | I/O - I/O Typ. (pF)       | I/O - GND Typ. (pF) |                                                              |              |
| 3.3                                           | 0.25                      | 0.25                | 6.0                                                          | DFN 2.5x1.0A |
| 5.5                                           | 0.9                       | 1.0                 | 11.0                                                         | DFN 1.6x1.6  |
| 5.5                                           | 0.7                       | 1.3                 | 2.4                                                          | SOT-23       |
| 5.0                                           | 0.3                       | 0.6                 | 16.5                                                         | DFN 1.6x1.0  |
| 5.0                                           | 0.3                       | 0.3                 | 12.0                                                         | DFN 1.2x1.1  |
| 5.5                                           | 0.9                       | 1.0                 | 11.0                                                         | SOT-23       |
| 5.5                                           | 0.9                       | 1.0                 | 12.0                                                         | DFN 1.6x1.6  |
| 5.0                                           | 0.3                       | 0.6                 | 16.5                                                         | DFN 2.5x1.0  |
| 3.3                                           | 0.3                       | 0.6                 | 5.0                                                          | DFN 2.5x1.0  |
| 5.0                                           | 0.3                       | 0.6                 | 6.0                                                          | DFN 2.5x1.0  |
| 3.3                                           | 0.2                       | 0.45                | 5.0                                                          | DFN 2.5x1.0  |
| 5.0                                           | 0.2                       | 0.45                | 6.0                                                          | DFN 2.5x1.0  |
| 3.3                                           | 0.2                       | 0.45                | 4.0                                                          | DFN 2.5x1.0  |
| 5.0                                           | 0.2                       | 0.45                | 5.0                                                          | DFN 2.5x1.0  |
| 3.3                                           | 0.25                      | 0.6                 | 3.0                                                          | DFN 2.5x1.0  |
| 3.3                                           | 0.15                      | 0.3                 | —                                                            | DFN 2.5x1.0A |
| 5.0                                           | 0.15                      | 0.3                 | —                                                            | DFN 2.5x1.0A |
| 5.0                                           | 0.25                      | 0.5                 | 6.5                                                          | DFN 1.3x0.8  |
| 5.5                                           | 0.25                      | 0.5                 | 4.5                                                          | SOT-23       |
| 5.5                                           | 0.9                       | 1.25                | 14.0                                                         | SOT-23       |
| 5.0                                           | 0.35                      | 0.7                 | 22.0                                                         | SOT-23       |
| 5.5                                           | 0.35                      | 0.5                 | 4.0                                                          | SOT-23       |
| 3.3                                           | 0.3                       | 0.6                 | 16.5                                                         | DFN 3.3x1.3  |
| 5.0                                           | 0.3                       | 0.6                 | 16.5                                                         | DFN 3.3x1.3  |
| 3.3                                           | 0.2                       | 0.45                | 10.0                                                         | DFN 3.3x1.3  |
| 5.0                                           | 0.2                       | 0.45                | 11.0                                                         | DFN 3.3x1.3  |
| 3.3                                           | 0.12                      | 0.12                | —                                                            | DFN 5.5x1.5  |
| 5.0                                           | 0.12                      | 0.12                | —                                                            | DFN 5.5x1.5  |
| 2.5                                           | 1.2                       | 2.3                 | 5.0                                                          | DFN 3.5x2.5  |

| Reverse Working Voltage<br>$V_{RWM}$ Max. (V) | Channel Input Capacitance<br>I/O - GND Typ. (pF) | Channel Clamp Voltage<br>( $I_{pp} = 15A$ ) $V_{CL}$ Max. (V) | Package     |
|-----------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|-------------|
| 5.0                                           | 1.25                                             | 20.0                                                          | DFN 1.0x0.6 |
| 2.5                                           | 11.0                                             | 9.5                                                           | DFN 1.0x0.6 |
| 3.3                                           | 11.0                                             | 10.0                                                          | DFN 1.0x0.6 |
| 5.0                                           | 16.0                                             | 10.0                                                          | DFN 1.0x0.6 |
| 12.0                                          | 30.0                                             | 21.0                                                          | DFN 1.0x0.6 |
| 24.0                                          | 20.0                                             | 37.0                                                          | DFN 1.0x0.6 |
| 2.5                                           | 5.5                                              | 13.0                                                          | DFN 1.0x0.6 |
| 3.3                                           | 5.5                                              | 14.0                                                          | DFN 1.0x0.6 |
| 5.0                                           | 13.0                                             | 16.0                                                          | DFN 1.0x0.6 |
| 8.0                                           | 23.0                                             | 23.0                                                          | DFN 1.0x0.6 |
| 12.0                                          | 13.0                                             | 27.0                                                          | DFN 1.0x0.6 |
| 24.0                                          | 12.0                                             | 39.0                                                          | DFN 1.0x0.6 |
| 8.0                                           | 45.0                                             | 18.0                                                          | DFN 1.0x0.6 |

## Diode Arrays (Continued)

| Part Number   | Description                                      | IEC 61000-4-2 (ESD) |          | Protected Lines |
|---------------|--------------------------------------------------|---------------------|----------|-----------------|
|               |                                                  | Contact (kV)        | Air (kV) |                 |
| AOZ8251ADI-03 | Bidirectional TVS Diode                          | ± 20                | ± 20     | 1               |
| AOZ8251ADI-05 | Bidirectional TVS Diode                          | ± 20                | ± 20     | 1               |
| AOZ8251BDI-05 | Bidirectional TVS Diode                          | ± 20                | ± 20     | 1               |
| AOZ8251BDI-12 | Bidirectional TVS Diode                          | ± 20                | ± 20     | 1               |
| AOZ8251BDI-16 | Bidirectional TVS Diode                          | ± 15                | ± 15     | 1               |
| AOZ8811DI     | Ultra-Low Capacitance Single Diode               | ± 8                 | ± 15     | 1               |
| AOZ8811DT-03  | Ultra-Low Capacitance Single Diode               | ± 20                | ± 20     | 1               |
| AOZ8821DI-05  | Ultra-Low Capacitance Single Diode               | ± 15                | ± 15     | 1               |
| AOZ8821DT-03  | Ultra-Low Capacitance Single Diode               | ± 20                | ± 20     | 1               |
| AOZ8831ADI-05 | Ultra-Low Capacitance TVS Diode                  | ± 25                | —        | 1               |
| AOZ8831DI-05  | Ultra-Low Capacitance Bidirectional Single Diode | ± 15                | ± 15     | 1               |
| AOZ8831DT-03  | Ultra-Low Capacitance Bidirectional Single Diode | ± 20                | ± 20     | 1               |
| AOZ8831DT-05  | Ultra-Low Capacitance Bidirectional Single Diode | ± 20                | ± 20     | 1               |
| AOZ8831DT-24  | Ultra-Low Capacitance Bidirectional Single Diode | ± 15                | ± 13     | 1               |
| AOZ8841DI-05  | Ultra-Low Capacitance Bidirectional Single Diode | ± 25                | ± 15     | 1               |
| AOZ8851ADI-03 | Ultra-Low Capacitance Bidirectional Single Diode | ± 20                | ± 20     | 1               |
| AOZ8851ADI-05 | Ultra-Low Capacitance Bidirectional Single Diode | ± 20                | ± 20     | 1               |
| AOZ8851ADI-07 | Ultra-Low Capacitance Bidirectional Single Diode | ± 20                | ± 20     | 1               |
| AOZ8851ADI-18 | Ultra-Low Capacitance Bidirectional Single Diode | ± 8                 | ± 15     | 1               |
| AOZ8851ADI-20 | Ultra-Low Capacitance Bidirectional Single Diode | ± 8                 | ± 15     | 1               |
| AOZ8851ADI-24 | Ultra-Low Capacitance Bidirectional Single Diode | ± 8                 | ± 15     | 1               |
| AOZ8650BDT-03 | Ultra-Low Capacitance Bidirectional Single Diode | ± 30                | ± 30     | 1               |
| AOZ8651BDT-03 | Ultra-Low Capacitance Bidirectional Single Diode | ± 30                | ± 30     | 1               |
| AOZ8651BDT-05 | Ultra-Low Capacitance Bidirectional Single Diode | ± 30                | ± 30     | 1               |
| AOZ8671BDT-03 | Ultra-Low Capacitance Bidirectional Single Diode | ± 30                | ± 30     | 1               |
| AOZ8671BDT-05 | Ultra-Low Capacitance Bidirectional Single Diode | ± 30                | ± 30     | 1               |
| AOZ8212ACI-05 | Low Capacitance Bidirectional Diode Arrays       | ± 15                | ± 15     | 2               |
| AOZ8212BCI-12 | Low Capacitance Bidirectional Diode Arrays       | ± 30                | ± 30     | 2               |
| AOZ8212BCI-24 | Low Capacitance Bidirectional Diode Arrays       | ± 15                | ± 18     | 2               |
| AOZ8222DI-05  | TVS Diode                                        | ± 20                | ± 20     | 2               |
| AOZ8822DI-05  | Low Capacitance Diode                            | ± 15                | ± 15     | 2               |
| AOZ8832DI-05  | Low Capacitance Bidirectional Diode              | ± 12                | ± 12     | 2               |
| AOZ8204DI     | Low Capacitance Diode Arrays                     | ± 30                | ± 30     | 4               |
| AOZ8224CI-05  | Low Capacitance Bidirectional Diode Arrays       | ± 30                | ± 30     | 4               |
| AOZ8234DI     | Low Capacitance Diode Array                      | ± 18                | ± 18     | 4               |
| AOZ8858DI-03  | Ultra-Low Capacitance Diode Array                | ± 30                | ± 30     | 4               |
| AOZ8235DI     | Low Capacitance Diode Array                      | ± 18                | ± 18     | 5               |
| AOZ8236DI-05  | TVS Diode Array                                  | ± 30                | ± 30     | 5               |
| AOZ8206DI     | Low Capacitance Diode Arrays                     | ± 20                | ± 20     | 6               |
| AOZ8208DI     | Low Capacitance Diode Arrays                     | ± 28                | ± 28     | 8               |

| Reverse Working Voltage<br>$V_{RWM}$ Max (V) | Channel Input Capacitance<br>I/O - GND Typ. (pF) | Channel Clamp Voltage<br>( $I_{pp} = 15A$ ) $V_{CL}$ Max. (V) | Package       |
|----------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|---------------|
| 3.3                                          | 10.0                                             | 16.0                                                          | DFN 0.6x0.3   |
| 5.0                                          | 10.0                                             | 17.0                                                          | DFN 0.6x0.3   |
| 5.0                                          | 5.0                                              | 16.5                                                          | DFN 0.62x0.32 |
| 12.0                                         | 4.5                                              | 25.0                                                          | DFN 0.62x0.32 |
| 16.0                                         | 3.0                                              | 28.0                                                          | DFN 0.62x0.32 |
| 5.0                                          | 0.50                                             | 23.0                                                          | DFN 1.0x0.6   |
| 3.6                                          | —                                                | —                                                             | DFN 1.0x0.6   |
| 5.0                                          | 0.65                                             | 15.0                                                          | DFN 1.0x0.6   |
| 3.6                                          | —                                                | —                                                             | DFN 1.0x0.6   |
| 5.0                                          | 0.3                                              | 19.0                                                          | DFN 1.6x1.0   |
| 5.0                                          | 0.35                                             | 23.0                                                          | DFN 1.0x0.6   |
| 3.6                                          | 0.22                                             | 15.0                                                          | DFN 1.0x0.6   |
| 5.0                                          | 0.22                                             | 15.0                                                          | DFN 1.0x0.6   |
| 24.0                                         | 0.35                                             | 48.0                                                          | DFN 1.0x0.6   |
| 5.0                                          | 0.30                                             | 19.5                                                          | DFN 1.0x0.6   |
| 3.3                                          | 0.22                                             | 16.0                                                          | DFN 0.62x0.32 |
| 5.0                                          | 0.22                                             | 17.0                                                          | DFN 0.62x0.32 |
| 7.0                                          | 0.22                                             | 17.0                                                          | DFN 0.62x0.32 |
| 18.0                                         | 0.4                                              | —                                                             | DFN 0.62x0.32 |
| 20.0                                         | 0.4                                              | —                                                             | DFN 0.62x0.32 |
| 24.0                                         | 0.4                                              | —                                                             | DFN 0.62x0.32 |
| 3.3                                          | 0.75                                             | 6.0                                                           | DFN 0.6x0.3A  |
| 3.3                                          | 0.5                                              | 7.5                                                           | DFN 0.6x0.3A  |
| 5.0                                          | 0.5                                              | 7.5                                                           | DFN 0.6x0.3A  |
| 3.3                                          | 1.0                                              | 8.0                                                           | DFN 0.6x0.3A  |
| 5.0                                          | 1.0                                              | 8.0                                                           | DFN 0.6x0.3A  |
| 5.0                                          | 11.0                                             | 16.0                                                          | SOT-23        |
| 12.0                                         | 10.0                                             | 24.0                                                          | SOT-23        |
| 24.0                                         | 11.0                                             | 40.0                                                          | SOT-23        |
| 5.0                                          | 15.0                                             | 10.0                                                          | DFN 1.0x0.6   |
| 5.0                                          | 0.55                                             | 17.0                                                          | DFN 1.0x0.6   |
| 5.0                                          | 0.4                                              | 19.5                                                          | DFN 1.0x0.6   |
| 5.0                                          | 17.0                                             | 7.0                                                           | DFN 1.6x1.6   |
| 5.0                                          | 13.0                                             | 18.0                                                          | SOT-23        |
| 5.0                                          | 13.5                                             | 12.0                                                          | DFN 1.45x1.0  |
| 3.3                                          | 0.25                                             | 10.0                                                          | DFN 1.45x1.0  |
| 5.0                                          | 13.5                                             | 12.0                                                          | DFN 1.45x1.0  |
| 5.0                                          | —                                                | 13.5                                                          | DFN 1.6x1.6   |
| 5.0                                          | 17.0                                             | 9.0                                                           | DFN 1.6x1.6   |
| 5.0                                          | 17.0                                             | 9.0                                                           | DFN 1.8x1.2   |

# MOSFETs, IGBTs AND IPMs

AOS pioneered the fab-lite model in the Trench Power MOSFET field, developing leading-edge products that are exclusively manufactured in state-of-the-art 8-inch fabs. Advanced proprietary silicon and packaging processes are designed in AOS' U.S.

## Low Voltage MOSFETs

| Part Number                        | Package               | Configuration       | Polarity | ESD Diode  | Schottky Diode | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) |
|------------------------------------|-----------------------|---------------------|----------|------------|----------------|---------------------|----------------------|
| <b>AlphaDFN™ 0.97x0.97</b>         |                       |                     |          |            |                |                     |                      |
| AOC2421                            | MCSP 0.97x0.97A       | Single              | P        | Yes        | No             | -8                  | 5                    |
| AOC2874                            | MCSP 0.97x0.97B       | Common Drain        | N        | Yes        | No             | 20                  | 12                   |
| <b>AlphaDFN™ 1.5x1.5/1.57x1.57</b> |                       |                     |          |            |                |                     |                      |
| AOC2804B                           | MCSP 1.5x1.5          | Common Drain        | N        | Yes        | No             | 20                  | 12                   |
| <b>AlphaDFN™ 1.79x1.18</b>         |                       |                     |          |            |                |                     |                      |
| <b>AOCA24108E</b> <i>NEW</i>       | <b>MCSP 1.79x1.18</b> | <b>Common Drain</b> | <b>N</b> | <b>Yes</b> | <b>No</b>      | <b>12</b>           | <b>8</b>             |
| <b>AlphaDFN™ 1.9x1.6</b>           |                       |                     |          |            |                |                     |                      |
| <b>AOCA24106E</b> <i>NEW</i>       | <b>MCSP 1.9x1.6</b>   | <b>Common Drain</b> | <b>N</b> | <b>Yes</b> | <b>No</b>      | <b>12</b>           | <b>8</b>             |
| <b>AlphaDFN™ 2.7x1.81</b>          |                       |                     |          |            |                |                     |                      |
| AOC3868                            | MCSP 2.7x1.81A        | Common Drain        | N        | Yes        | No             | 12                  | 8                    |
| <b>AlphaDFN™ 3.4x1.96</b>          |                       |                     |          |            |                |                     |                      |
| AOCA36102E                         | MCSP 3.4x1.96         | Common Drain        | N        | Yes        | No             | 12                  | 8                    |
| <b>AlphaDFN™ 3.01x1.52</b>         |                       |                     |          |            |                |                     |                      |
| AOC3870A                           | MCSP 3.01x1.52A       | Common Drain        | N        | Yes        | No             | 12                  | 8                    |
| <b>AlphaDFN™ 3.05x1.77</b>         |                       |                     |          |            |                |                     |                      |
| AOC3860A                           | MCSP 3.05x1.77A       | Common Drain        | N        | Yes        | No             | 12                  | 8                    |
| <b>AlphaDFN™ 3.55x1.77</b>         |                       |                     |          |            |                |                     |                      |
| AOC3862                            | MCSP 3.55x1.77        | Common Drain        | N        | Yes        | No             | 12                  | 8                    |
| AOC3878                            | MCSP 3.55x1.77        | Common Drain        | N        | Yes        | No             | 12                  | 8                    |
| <b>SC-70</b>                       |                       |                     |          |            |                |                     |                      |
| AO7400                             | SC-70-3               | Single              | N        | No         | No             | 30                  | 12                   |
| AO7410                             | SC-70-3               | Single              | N        | No         | No             | 30                  | 12                   |
| AO7412                             | SC-70-6               | Single              | N        | No         | No             | 30                  | 12                   |
| AO7408                             | SC-70-6               | Single              | N        | No         | No             | 20                  | 8                    |
| AO7414                             | SC-70-6               | Single              | N        | No         | No             | 20                  | 8                    |
| AO7407                             | SC-70-3               | Single              | P        | No         | No             | -20                 | 8                    |
| AO7411                             | SC-70-6               | Single              | P        | No         | No             | -20                 | 8                    |
| AO7413                             | SC-70-3               | Single              | P        | Yes        | No             | -20                 | 12                   |
| AO7415                             | SC-70-6               | Single              | P        | Yes        | No             | -20                 | 12                   |
| AO7417                             | SC-70-6               | Single              | P        | No         | No             | -20                 | 8                    |
| AO7401                             | SC-70-3               | Single              | P        | No         | No             | -30                 | 12                   |
| AO7405                             | SC-70-6               | Single              | P        | No         | No             | -30                 | 12                   |
| AO7800                             | SC-70-6               | Dual                | N        | Yes        | No             | 20                  | 8                    |
| <b>SC-89</b>                       |                       |                     |          |            |                |                     |                      |
| AO5401E                            | SC-89-3               | Single              | P        | Yes        | No             | -20                 | 8                    |
| AO5803E                            | SC-89-6               | Dual                | P        | Yes        | No             | -20                 | 8                    |
| AO5600E                            | SC-89-6               | Complementary       | N        | Yes        | No             | 20                  | 8                    |
| AO5600E                            | SC-89-6               | Complementary       | P        | Yes        | No             | -20                 | 8                    |

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

headquarters and are then produced with its very efficient manufacturing model. Our product portfolio covers 6V to 1000V MOSFETs; 600V, 650V, 700V, 1200V, and 1350V IGBTs and 600V 3-phase motor drives IPMs.

| I <sub>D</sub> (A)<br>25°C | P <sub>D</sub> (W)<br>25°C | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |                   |                   |      | V <sub>GS(th)</sub><br>(max V) | C <sub>iss</sub><br>(pF) | C <sub>oss</sub><br>(pF) | C <sub>rss</sub><br>(pF) | Q <sub>g</sub><br>(nC) | Q <sub>gd</sub><br>(nC) | T <sub>rr</sub><br>(ns) | Q <sub>rr</sub><br>(nC) |
|----------------------------|----------------------------|---------------------------------------------------|-------------------|-------------------|------|--------------------------------|--------------------------|--------------------------|--------------------------|------------------------|-------------------------|-------------------------|-------------------------|
|                            |                            | 10V                                               | 4.5V              | 2.5V              | 1.8V |                                |                          |                          |                          |                        |                         |                         |                         |
| -2.5                       | 0.6                        |                                                   |                   | 60                | 72   | -0.7                           | 752                      | 178                      | 104                      | 7.5                    | 1                       | 12                      | 4                       |
| 4.5                        | 1.1                        |                                                   | 48                | 72                |      | 1.3                            |                          |                          |                          | 11.5                   |                         |                         |                         |
| 6                          | 1.3                        |                                                   | 34 <sup>(2)</sup> | 56 <sup>(2)</sup> |      | 1.3                            |                          |                          |                          | 9.5                    |                         |                         |                         |
| 14                         | 2.2                        |                                                   | 7.5               | 11                |      | 1.1                            |                          |                          |                          | 15                     |                         |                         |                         |
| 20                         | 2.7                        |                                                   | 5.6               | 8.5               |      | 1.1                            |                          |                          |                          | 18                     |                         |                         |                         |
| 20                         | 2.5                        |                                                   | 5                 | 7                 |      | 1.1                            |                          |                          |                          | 35                     |                         |                         |                         |
| 20                         | 2.5                        |                                                   | 5                 | 7                 |      | 1.1                            |                          |                          |                          | 35                     |                         |                         |                         |
| 22                         | 2.3                        |                                                   | 3.7               | 5.6               |      | 1.1                            |                          |                          |                          | 32                     |                         |                         |                         |
| 25                         | 2.5                        |                                                   | 3.5               | 5                 |      | 1.0                            |                          |                          |                          | 44                     |                         |                         |                         |
| 27                         | 2.5                        |                                                   | 3.0               | 4.4               |      | 1.2                            |                          |                          |                          | 46                     |                         |                         |                         |
| 35                         | 3.1                        |                                                   | 2                 | 3.3               |      | 1.1                            |                          |                          |                          | 60                     |                         |                         |                         |
| 1.7                        | 0.35                       | 55                                                | 65                | 85                |      | 1.5                            | 235                      | 35                       | 18                       | 4.7                    | 1.6                     | 8.5                     | 2.6                     |
| 1.7                        | 0.35                       | 55                                                | 65                | 85                |      | 1.5                            | 235                      | 35                       | 18                       | 4.7                    | 1.6                     | 8.5                     | 2.6                     |
| 1.7                        | 0.35                       | 55                                                | 65                | 85                |      | 1.5                            | 235                      | 35                       | 18                       | 4.7                    | 1.6                     | 8.5                     | 2.6                     |
| 2                          | 0.35                       |                                                   | 62                | 75                | 85   | 1                              | 260                      | 48                       | 27                       | 2.9 <sup>†</sup>       | 0.6                     | 14                      | 3.8                     |
| 2                          | 0.35                       |                                                   | 62                | 70                | 85   | 1                              | 260                      | 48                       | 27                       | 2.9                    | 0.6                     | 14                      | 3.4                     |
| -1.2                       | 0.63                       |                                                   | 135               | 170               | 220  | -1                             | 560                      | 80                       | 70                       | 8.5 <sup>†</sup>       | 2.1                     | 37                      | 27                      |
| -1.8                       | 0.63                       |                                                   | 120               | 150               | 200  | -1                             | 560                      | 80                       | 70                       | 8.5                    | 2.1                     | 37                      | 27                      |
| -1.4                       | 0.35                       | 113                                               | 135               | 180               |      | -1.2                           | 325                      | 63                       | 37                       | 3.2                    | 0.9                     | 6.1                     | 1.4                     |
| -2                         | 0.63                       | 100                                               | 125               | 170               |      | -1.2                           | 325                      | 63                       | 37                       | 3.2                    | 0.9                     | 6.1                     | 1.4                     |
| -1.9                       | 0.57                       |                                                   | 80                | 100               | 125  | -1                             | 560                      | 80                       | 70                       | 8.5                    | 2.1                     | 37                      | 27                      |
| -1.4                       | 0.35                       | 115                                               | 140               | 200               |      | -1.4                           | 260                      | 37                       | 20                       | 2.8                    | 1                       | 11.5                    | 4.5                     |
| -1.4                       | 0.35                       | 115                                               | 140               | 200               |      | -1.4                           | 260                      | 37                       | 20                       | 2.8                    | 1                       | 11.5                    | 4.5                     |
| 0.9                        | 0.3                        |                                                   | 300               | 350               | 450  | 0.9                            | 101                      | 17                       | 14                       | 1.57                   | 0.36                    | 6.7                     | 1.6                     |
| -0.5                       | 0.38                       |                                                   | 800               | 1000              | 1300 | -0.9                           | 72                       | 17                       | 9                        |                        |                         | 27                      | 8.3                     |
| -0.6                       | 0.4                        |                                                   | 800               | 1000              | 1250 | -0.9                           | 72                       | 17                       | 9                        |                        |                         | 27                      | 8.3                     |
| 0.6                        | 0.38                       |                                                   | 650               | 750               | 950  | 1                              | 35                       | 8                        | 6                        | 0.63                   | 0.16                    | 8                       | 2                       |
| -0.5                       | 0.38                       |                                                   | 800               | 1000              | 1300 | -1                             | 72                       | 17                       | 9                        |                        |                         | 27                      | 8.3                     |

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
<sup>†</sup> Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Low Voltage MOSFETs (Continued)

| Part Number   | Package  | Configuration | Polarity | ESD Diode | Schottky Diode | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) |
|---------------|----------|---------------|----------|-----------|----------------|---------------------|----------------------|
| <b>SOT-23</b> |          |               |          |           |                |                     |                      |
| AO3400        | SOT-23-3 | Single        | N        | No        | No             | 30                  | 12                   |
| AO3400A       | SOT-23-3 | Single        | N        | No        | No             | 30                  | 12                   |
| AO3402        | SOT-23-3 | Single        | N        | No        | No             | 30                  | 12                   |
| AO3404A       | SOT-23-3 | Single        | N        | No        | No             | 30                  | 20                   |
| AO3406        | SOT-23-3 | Single        | N        | No        | No             | 30                  | 20                   |
| AO3418        | SOT-23-3 | Single        | N        | No        | No             | 30                  | 12                   |
| AO3424        | SOT-23-3 | Single        | N        | No        | No             | 30                  | 12                   |
| AO3434A       | SOT-23-3 | Single        | N        | Yes       | No             | 30                  | 12                   |
| AO3414        | SOT-23-3 | Single        | N        | No        | No             | 20                  | 8                    |
| AO3416        | SOT-23-3 | Single        | N        | Yes       | No             | 20                  | 8                    |
| AO3420        | SOT-23-3 | Single        | N        | No        | No             | 20                  | 12                   |
| AO3413        | SOT-23-3 | Single        | P        | No        | No             | -20                 | 8                    |
| AO3415        | SOT-23-3 | Single        | P        | Yes       | No             | -20                 | 8                    |
| AO3415A       | SOT-23-3 | Single        | P        | Yes       | No             | -20                 | 8                    |
| AO3419        | SOT-23-3 | Single        | P        | Yes       | No             | -20                 | 12                   |
| AO3423        | SOT-23-3 | Single        | P        | Yes       | No             | -20                 | 12                   |
| AO3435        | SOT-23-3 | Single        | P        | No        | No             | -20                 | 8                    |
| AO3401        | SOT-23-3 | Single        | P        | No        | No             | -30                 | 12                   |
| AO3401A       | SOT-23-3 | Single        | P        | No        | No             | -30                 | 12                   |
| AO3403        | SOT-23-3 | Single        | P        | No        | No             | -30                 | 12                   |
| AO3407        | SOT-23-3 | Single        | P        | No        | No             | -30                 | 20                   |
| AO3407A       | SOT-23-3 | Single        | P        | No        | No             | -30                 | 20                   |
| AO3409        | SOT-23-3 | Single        | P        | No        | No             | -30                 | 20                   |
| AO3421        | SOT-23-3 | Single        | P        | No        | No             | -30                 | 20                   |
| AO3421E       | SOT-23-3 | Single        | P        | Yes       | No             | -30                 | 20                   |
| AO3451        | SOT-23-3 | Single        | P        | No        | No             | -30                 | 12                   |
| AO3452        | SOT-23-3 | Single        | N        | No        | No             | 30                  | 12                   |
| AO3453        | SOT23-3  | Single        | P        | No        | No             | -30                 | 12                   |
| AO3454        | SOT23-3  | Single        | N        | No        | No             | 30                  | 20                   |
| AO3456        | SOT23-3  | Single        | N        | No        | No             | 30                  | 20                   |
| AO3457        | SOT23-3  | Single        | P        | No        | No             | 30                  | 20                   |
| AO3459        | SOT23-3  | Single        | P        | No        | No             | -30                 | 20                   |
| AO3493        | SOT23-3  | Single        | P        | No        | No             | -20                 | 8                    |
| AO3494        | SOT23-3  | Single        | N        | No        | No             | 20                  | 8                    |
| AO3495        | SOT23-3  | Single        | P        | Yes       | No             | -20                 | 8                    |
| AO3498        | SOT23-3  | Single        | N        | No        | No             | 30                  | 12                   |
| AO3499        | SOT23-3  | Single        | P        | Yes       | No             | -20                 | 12                   |
| <b>TSOP-6</b> |          |               |          |           |                |                     |                      |
| AO6400        | TSOP-6   | Single        | N        | No        | No             | 30                  | 12                   |
| AO6402A       | TSOP-6   | Single        | N        | No        | No             | 30                  | 20                   |
| AO6424        | TSOP-6   | Single        | N        | No        | No             | 30                  | 20                   |
| AO6424A       | TSOP-6   | Single        | N        | No        | No             | 30                  | 20                   |
| AO6432        | TSOP-6   | Single        | N        | No        | No             | 30                  | 20                   |
| AO6404        | TSOP-6   | Single        | N        | No        | No             | 20                  | 12                   |

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

| I <sub>D</sub> (A) | P <sub>D</sub> (W) | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |      |      |      | V <sub>GS(th)</sub><br>(max V) | C <sub>iss</sub><br>(pF) | C <sub>oss</sub><br>(pF) | C <sub>rss</sub><br>(pF) | Q <sub>g</sub><br>(nC) | Q <sub>gd</sub><br>(nC) | T <sub>rr</sub><br>(ns) | Q <sub>rr</sub><br>(nC) |
|--------------------|--------------------|---------------------------------------------------|------|------|------|--------------------------------|--------------------------|--------------------------|--------------------------|------------------------|-------------------------|-------------------------|-------------------------|
|                    |                    | 10V                                               | 4.5V | 2.5V | 1.8V |                                |                          |                          |                          |                        |                         |                         |                         |
| 5.8                | 1.4                | 28                                                | 33   | 52   |      | 1.45                           | 630                      | 75                       | 50                       | 6                      | 1.8                     | 8.5                     | 2.6                     |
| 5.7                | 1.4                | 26.5                                              | 32   | 48   |      | 1.45                           | 630                      | 75                       | 50                       | 6                      | 1.8                     | 8.5                     | 2.6                     |
| 4                  | 1.4                | 52                                                | 65   | 85   |      | 1.5                            | 235                      | 35                       | 18                       | 4.7                    | 1.6                     | 8.5                     | 2.6                     |
| 5.8                | 1.4                | 25                                                | 35   |      |      | 2.6                            | 373                      | 67                       | 41                       | 3.3                    | 1.7                     | 10.5                    | 4.5                     |
| 3.6                | 1.4                | 50                                                | 70   |      |      | 2.5                            | 170                      | 35                       | 23                       | 2                      | 1                       | 7.5                     | 2.5                     |
| 3.8                | 1.4                | 55                                                | 65   | 85   |      | 1.5                            | 235                      | 35                       | 18                       | 4.7                    | 1.6                     | 8.5                     | 2.6                     |
| 3.8                | 1.4                | 55                                                | 65   | 85   |      | 1.5                            | 235                      | 35                       | 18                       | 4.7                    | 1.6                     | 8.5                     | 2.6                     |
| 4                  | 1.4                | 52                                                | 60   | 78   |      | 1.5                            | 245                      | 35                       | 20                       | 2.6                    | 1                       | 6.5                     | 7.5                     |
| 3                  | 1.4                |                                                   | 62   | 70   | 85   | 1                              | 260                      | 48                       | 27                       | 2.9                    | 0.6                     | 14                      | 3.8                     |
| 6.5                | 1.4                |                                                   | 22   | 26   | 34   | 1.1                            | 1295                     | 160                      | 87                       | 10                     | 2.6                     | 31                      | 6.8                     |
| 6                  | 1.4                | 24                                                | 27   | 42   | 55   | 1.1                            | 525                      | 95                       | 75                       | 6                      | 2                       | 14                      | 6                       |
| -3                 | 1.4                |                                                   | 80   | 100  | 130  | -1                             | 560                      | 80                       | 70                       | 8.5                    | 2.1                     | 37                      | 27                      |
| -4                 | 1.5                |                                                   | 41   | 53   | 65   | -0.9                           | 751                      | 115                      | 80                       | 9.3                    | 2.2                     | 26                      | 51                      |
| -5                 | 1.5                |                                                   | 41   | 53   | 65   | -0.9                           | 751                      | 115                      | 80                       | 9.3                    | 2.2                     | 26                      | 51                      |
| -3.5               | 1.4                | 85                                                | 102  | 140  |      | -1.2                           | 325                      | 63                       | 37                       | 3.1                    | 1.1                     | 11                      | 4.3                     |
| -2                 | 1.4                | 92                                                | 118  | 166  |      | -1.2                           | 325                      | 63                       | 37                       | 3.2                    | 0.9                     | 6.1                     | 1.4                     |
| -2.9               | 1                  |                                                   | 70   | 90   | 110  | -1                             | 510                      | 70                       | 52                       | 5.6                    | 1.8                     | 17                      | 4                       |
| -4                 | 1.4                | 50                                                | 60   | 85   |      | -1.3                           | 645                      | 80                       | 55                       | 7                      | 2.5                     | 11                      | 3.5                     |
| -4                 | 1.4                | 50                                                | 60   | 85   |      | -1.3                           | 645                      | 80                       | 55                       | 7                      | 2.5                     | 11                      | 3.5                     |
| -2.6               | 1.4                | 115                                               | 150  | 200  |      | -1.4                           | 260                      | 37                       | 20                       | 2.8                    | 1                       | 11.5                    | 4.5                     |
| -4.1               | 1.4                | 52                                                | 87   |      |      | 2.4                            | 520                      | 100                      | 65                       | 4.6                    | 2.2                     | 11                      | 5.3                     |
| -4.3               | 1.4                | 48                                                | 78   |      |      | -2.4                           | 520                      | 100                      | 65                       | 4.6                    | 2.2                     | 11                      | 5.3                     |
| -2.6               | 1.4                | 110                                               | 180  |      |      | -2.4                           | 197                      | 42                       | 26                       | 2.2                    | 1.1                     | 11.3                    | 4.4                     |
| -2.6               | 1.4                | 110                                               | 180  |      |      | -2.4                           | 197                      | 42                       | 26                       | 2.2                    | 1.1                     | 11.3                    | 4.4                     |
| -3                 | 1.4                | 95                                                | 160  |      |      | -2.5                           | 215                      | 46.5                     | 27.5                     | 2.2                    | 1.2                     | 9                       | 16                      |
| -4                 | 1.4                | 50                                                | 60   | 85   |      | -1.3                           | 645                      | 80                       | 55                       | 7                      | 2.5                     | 11                      | 3.5                     |
| 4                  | 1.4                | 52                                                | 65   | 85   |      | 1.5                            | 235                      | 35                       | 18                       | 5                      | 1.6                     | 8.5                     | 2.6                     |
| -2.6               | 1.4                | 115                                               | 150  | 200  |      | -1.4                           | 260                      | 37                       | 20                       | 3                      | 1                       | 11.5                    | 4.5                     |
| 5.8                | 1.4                | 25                                                | 35   |      |      | 2.6                            | 373                      | 67                       | 41                       | 3.3                    | 1.7                     | 10.5                    | 4.5                     |
| 3.6                | 1.4                | 50                                                | 70   |      |      | 2.5                            | 200                      | 35                       | 23                       | 2                      | 1                       | 7.5                     | 2.5                     |
| -4.3               | 1.4                | 48                                                | 78   |      |      | -2.4                           | 520                      | 100                      | 65                       | 4.6                    | 2.2                     | 11                      | 5.3                     |
| -2.6               | 1.4                | 110                                               | 180  |      |      | -2.4                           | 197                      | 42                       | 26                       | 2.2                    | 1.1                     | 11.3                    | 4.4                     |
| -3                 | 1.4                |                                                   | 80   | 100  | 130  | -1                             | 500                      | 70                       | 50                       | 8.5                    | 2.1                     | 37                      | 27                      |
| 3                  | 1.4                |                                                   | 62   | 70   | 85   | 1                              | 260                      | 48                       | 27                       | 3                      | 0.6                     | 14                      | 3.8                     |
| -5                 | 1.5                |                                                   | 41   | 53   | 65   | -0.9                           | 751                      | 115                      | 80                       | 9.3                    | 2.2                     | 26                      | 51                      |
| 3.8                | 1.4                | 55                                                | 65   | 85   |      | 1.5                            | 235                      | 35                       | 18                       | 5                      | 1.6                     | 8.5                     | 2.6                     |
| -3.5               | 1.4                | 85                                                | 102  | 140  |      | -1.2                           | 325                      | 63                       | 37                       | 3                      | 1.1                     | 11                      | 4.3                     |
|                    |                    |                                                   |      |      |      |                                |                          |                          |                          |                        |                         |                         |                         |
| 6.9                | 2                  | 28                                                | 33   | 52   |      | 1.45                           | 630                      | 75                       | 50                       | 6                      | 1.8                     | 8.5                     | 2.6                     |
| 7.5                | 2                  | 24                                                | 35   |      |      | 2.6                            | 373                      | 67                       | 41                       | 3.5                    | 1.7                     | 10.5                    | 4.5                     |
| 5                  | 1.25               | 31                                                | 43   |      |      | 2.4                            | 255                      | 45                       | 35                       | 2.55                   | 1.3                     | 8.5                     | 2.2                     |
| 6.5                | 2.5                | 35                                                | 48   |      |      | 2.4                            | 270                      | 50                       | 35                       | 3.2                    | 1.75                    | 10                      | 2.3                     |
| 7.5                | 2                  | 24                                                | 35   |      |      | 2.6                            | 373                      | 67                       | 41                       | 3.5                    | 1.7                     | 10.5                    | 4.5                     |
| 8.6                | 2                  | 17                                                | 18   | 24   | 33   | 1                              | 1810                     | 232                      | 200                      | 17.9                   | 4.7                     | 22                      | 9.8                     |

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
† Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Low Voltage MOSFETs (Continued)

| Part Number        |            | Package       | Configuration        | Polarity | ESD Diode | Schottky Diode | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) |
|--------------------|------------|---------------|----------------------|----------|-----------|----------------|---------------------|----------------------|
| AO6409             |            | TSOP-6        | Single               | P        | Yes       | No             | -20                 | 8                    |
| AO6409A            |            | TSOP-6        | Single               | P        | Yes       | No             | -20                 | 8                    |
| AO6415             |            | TSOP-6        | Single               | P        | Yes       | No             | -20                 | 12                   |
| AO6401             |            | TSOP-6        | Single               | P        | No        | No             | -30                 | 12                   |
| AO6401A            |            | TSOP-6        | Single               | P        | No        | No             | -30                 | 12                   |
| AO6405             |            | TSOP-6        | Single               | P        | No        | No             | -30                 | 20                   |
| AO6800             |            | TSOP-6        | Dual                 | N        | No        | No             | 30                  | 12                   |
| AO6802             |            | TSOP-6        | Dual                 | N        | No        | No             | 30                  | 20                   |
| AO6804A            |            | TSOP-6        | Dual                 | N        | yes       | No             | 20                  | 12                   |
| AO6808             |            | TSOP-6        | Common Drain         | N        | Yes       | No             | 20                  | 12                   |
| AO6601             |            | TSOP-6        | Complementary        | N        | No        | No             | 30                  | 12                   |
| AO6601             |            | TSOP-6        | Complementary        | P        | No        | No             | -30                 | 12                   |
| <b>AO6602G</b>     | <b>New</b> | <b>TSOP-6</b> | <b>Complementary</b> | <b>N</b> | <b>No</b> | <b>No</b>      | <b>30</b>           | <b>20</b>            |
| <b>AO6602G</b>     | <b>New</b> | <b>TSOP-6</b> | <b>Complementary</b> | <b>P</b> | <b>No</b> | <b>No</b>      | <b>-30</b>          | <b>20</b>            |
| AO6604             |            | TSOP-6        | Complementary        | N        | No        | No             | 20                  | 8                    |
| AO6604             |            | TSOP-6        | Complementary        | P        | No        | No             | -20                 | 8                    |
| AO6608             |            | TSOP-6        | Complementary        | N        | No        | No             | 30                  | 12                   |
| AO6608             |            | TSOP-6        | Complementary        | P        | No        | No             | -20                 | 8                    |
| <b>TSSOP-8</b>     |            |               |                      |          |           |                |                     |                      |
| AO8808A            |            | TSSOP-8       | Dual                 | N        | Yes       | No             | 20                  | 12                   |
| AO8801A            |            | TSSOP-8       | Dual                 | P        | Yes       | No             | -20                 | 8                    |
| AO8810             |            | TSSOP-8       | Common Drain         | N        | Yes       | No             | 20                  | 8                    |
| AO8814             |            | TSSOP-8       | Common Drain         | N        | Yes       | No             | 20                  | 12                   |
| AO8820             |            | TSSOP-8       | Common Drain         | N        | Yes       | No             | 20                  | 12                   |
| AO8822             |            | TSSOP-8       | Common Drain         | N        | Yes       | No             | 20                  | 12                   |
| <b>DFN 1.6x0.6</b> |            |               |                      |          |           |                |                     |                      |
| AON1605            |            | DFN 1.6x0.6   | Single               | P        | Yes       | No             | -20                 | 8                    |
| AON1606            |            | DFN 1.6x0.6   | Single               | N        | Yes       | No             | 20                  | 8                    |
| <b>DFN 1.6x1.6</b> |            |               |                      |          |           |                |                     |                      |
| AON1634            |            | DFN 1.6x1.6A  | Single               | N        | Yes       | No             | 30                  | 12                   |
| <b>DFN 2x2</b>     |            |               |                      |          |           |                |                     |                      |
| AON2410            |            | DFN 2x2       | Single               | N        | No        | No             | 30                  | 12                   |
| AON2420            |            | DFN 2x2       | Single               | N        | No        | No             | 30                  | 20                   |
| AON2802            |            | DFN 2x2       | Dual                 | N        | Yes       | No             | 30                  | 12                   |
| AON2810            |            | DFN 2x2       | Dual                 | N        | Yes       | No             | 30                  | 12                   |
| AON2812            |            | DFN 2x2       | Dual                 | N        | Yes       | No             | 30                  | 12                   |
| AON2409            |            | DFN 2x2       | Single               | P        | No        | No             | -30                 | 20                   |
| AON2408            |            | DFN 2x2       | Single               | N        | No        | No             | 20                  | 12                   |
| AON2405            |            | DFN 2x2       | Single               | P        | No        | No             | -20                 | 8                    |
| AON2406            |            | DFN 2x2       | Single               | N        | No        | No             | 20                  | 8                    |
| AON2801            |            | DFN 2x2       | Dual                 | P        | No        | No             | -20                 | 8                    |
| AON2803            |            | DFN 2x2       | Dual                 | P        | No        | No             | -20                 | 8                    |
| AON2403            |            | DFN 2x2       | Single               | P        | No        | No             | -12                 | 8                    |
| AON2411            |            | DFN 2x2       | Single               | P        | Yes       | No             | -12                 | 8                    |

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.  
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

| I <sub>D</sub> (A) | P <sub>D</sub> (W) | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |            |      |      | V <sub>GS(th)</sub><br>(max V) | C <sub>iss</sub><br>(pF) | C <sub>oss</sub><br>(pF) | C <sub>rss</sub><br>(pF) | Q <sub>g</sub><br>(nC) | Q <sub>gd</sub><br>(nC) | T <sub>rr</sub><br>(ns) | Q <sub>rr</sub><br>(nC) |
|--------------------|--------------------|---------------------------------------------------|------------|------|------|--------------------------------|--------------------------|--------------------------|--------------------------|------------------------|-------------------------|-------------------------|-------------------------|
|                    |                    | 10V                                               | 4.5V       | 2.5V | 1.8V |                                |                          |                          |                          |                        |                         |                         |                         |
| -5.5               | 2.1                |                                                   | 41         | 53   | 65   | -0.9                           | 751                      | 115                      | 80                       | 9.3                    | 2.2                     | 26                      | 51                      |
| -5.5               | 2.1                |                                                   | 41         | 53   | 65   | -0.9                           | 751                      | 115                      | 80                       | 9.3                    | 2.2                     | 26                      | 51                      |
| -3.3               | 1.25               | 82                                                | 100        | 140  |      | -1.2                           | 325                      | 63                       | 37                       | 3.2                    | 0.9                     | 6.1                     | 1.4                     |
| -5                 | 2                  | 47                                                | 64         | 85   |      | -1.3                           | 645                      | 80                       | 55                       | 7                      | 2.5                     | 11                      | 3.5                     |
| -5                 | 2                  | 47                                                | 64         | 85   |      | -1.3                           | 645                      | 80                       | 55                       | 7                      | 2.5                     | 11                      | 3.5                     |
| -5                 | 2                  | 52                                                | 87         |      |      | -2.4                           | 520                      | 100                      | 65                       | 4.6                    | 2.2                     | 11                      | 5.3                     |
| 3.4                | 1.15               | 60                                                | 70         | 90   |      | 1.5                            | 235                      | 35                       | 18                       | 4.7                    | 1.6                     | 8.5                     | 2.55                    |
| 3.5                | 1.15               | 50                                                | 70         |      |      | 2.5                            | 170                      | 35                       | 23                       | 2                      | 1                       | 7.5                     | 2.5                     |
| 5                  | 1.3                |                                                   | 28         | 39   |      | 1                              | 580                      | 95                       | 70                       | 5.8                    | 2.4                     | 32                      |                         |
| 4.6                | 0.8                |                                                   | 19         | 23   |      | 1                              | 620                      | 125                      | 64                       | 7.7                    | 2.7                     | 25                      | 9                       |
| 3.4                | 1.15               | 60                                                | 70         | 90   |      | 1.5                            | 235                      | 35                       | 18                       | 4.7                    | 1.6                     | 8.5                     | 2.55                    |
| -2.3               | 1.15               | 115                                               | 150        | 200  |      | -1.4                           | 260                      | 37                       | 20                       | 2.8                    | 1                       | 11.5                    | 4.5                     |
| <b>3.5</b>         | <b>1.15</b>        | <b>50</b>                                         | <b>70</b>  |      |      | <b>2.5</b>                     | <b>170</b>               | <b>35</b>                | <b>23</b>                | <b>2</b>               | <b>1</b>                | <b>7.5</b>              | <b>2.5</b>              |
| <b>-2.7</b>        | <b>1.15</b>        | <b>100</b>                                        | <b>170</b> |      |      | <b>-2.4</b>                    | <b>197</b>               | <b>42</b>                | <b>26</b>                | <b>2.2</b>             | <b>1.1</b>              | <b>11.3</b>             | <b>4.4</b>              |
| 3.4                | 1.1                |                                                   | 65         | 75   | 100  | 1                              | 260                      | 48                       | 27                       | 2.9                    | 0.6                     | 14                      | 3.8                     |
| -2.5               | 1.1                |                                                   | 75         | 95   | 115  | -1                             | 560                      | 80                       | 70                       | 8.5                    | 2.1                     | 37                      | 27                      |
| 3.4                | 1.25               | 60                                                | 70         | 90   |      | 1.5                            | 235                      | 35                       | 18                       | 3                      | 0.8                     | 6                       | 12                      |
| -3.3               | 1.25               |                                                   | 75         | 105  | 135  | -1                             | 510                      | 70                       | 50                       | 6                      | 1.8                     | 16                      | 4                       |
|                    |                    |                                                   |            |      |      |                                |                          |                          |                          |                        |                         |                         |                         |
| 8                  | 1.4                | 14                                                | 15         | 20   | 28   | 1                              | 1160                     | 232                      | 146                      | 16                     | 3.8                     | 20.2                    | 8                       |
| -4.5               | 1.5                |                                                   | 42         | 54   | 68   | -0.9                           | 751                      | 115                      | 80                       | 9.3                    | 22                      | 26                      | 51                      |
| 7                  | 1.5                |                                                   | 20         | 23   | 28   | 1.1                            | 1295                     | 160                      | 97                       | 10                     | 2.6                     | 31                      | 6.8                     |
| 7.5                | 1.5                | 16                                                | 18         | 24   | 34   | 1                              | 1390                     | 190                      | 150                      | 15.4                   | 4                       | 15                      | 5.1                     |
| 7                  | 1.5                | 21                                                | 24         | 32   | 50   | 1.1                            | 500                      | 100                      | 52                       | 6                      | 1                       | 9                       | 10                      |
| 7                  | 1.5                | 18                                                | 22         | 27   |      | 1                              | 650                      | 140                      | 60                       | 6.7                    | 3                       | 10                      | 11                      |
|                    |                    |                                                   |            |      |      |                                |                          |                          |                          |                        |                         |                         |                         |
| 0.7                | 0.9                |                                                   | 710        | 930  | 1250 | -1.1                           | 50                       | 12                       | 7.5                      | 0.75                   | 0.2                     |                         |                         |
| 0.7                | 0.9                |                                                   | 275        | 335  | 390  | 1                              | 62.5                     | 12.5                     | 9                        | 0.85                   | 0.25                    |                         |                         |
|                    |                    |                                                   |            |      |      |                                |                          |                          |                          |                        |                         |                         |                         |
| 4                  | 1.8                | 54                                                | 62         | 82   |      | 1.5                            | 245                      | 35                       | 20                       | 2.6                    | 1                       | 6.5                     | 7.5                     |
|                    |                    |                                                   |            |      |      |                                |                          |                          |                          |                        |                         |                         |                         |
| 8                  | 2.8                |                                                   | 21         | 28   |      | 1.5                            | 813                      | 98                       | 56                       | 8                      | 2.6                     | 10                      | 2.4                     |
| 8                  | 2.8                | 11.7                                              | 17.5       |      |      | 2.2                            | 552                      | 227                      | 28                       | 4.3                    | 1.7                     | 13.2                    | 3.2                     |
| 2                  | 2.1                | 60                                                | 68         | 88   |      | 1.5                            | 245                      | 35                       | 20                       | 2.6                    | 1                       | 2                       | 3                       |
| 2                  | 2.5                | 44                                                | 52         | 74   |      | 1.4                            | 235                      | 75                       | 15                       | 2.2                    | 0.7                     | 7.2                     | 1.3                     |
| 4.5                | 2.5                | 37                                                | 45         | 70   |      | 1.4                            | 235                      | 75                       | 15                       | 2.2                    | 0.7                     | 7.2                     | 1.3                     |
| -8                 | 2.8                | 32                                                | 53         |      |      | -2.3                           | 530                      | 114                      | 75                       | 6                      | 3                       | 12.2                    | 25.4                    |
| 8                  | 2.8                |                                                   | 14.5       | 19   |      | 1.2                            | 782                      | 158                      | 98                       | 7                      | 2.4                     | 11                      | 2.7                     |
| -8                 | 2.8                |                                                   | 32         | 41   | 56   | -0.9                           | 1025                     | 167                      | 119                      | 13                     | 3.4                     | 15                      | 4                       |
| 8                  | 2.8                |                                                   | 12.5       | 15   | 19   | 1                              | 1140                     | 165                      | 110                      | 12.5                   | 2.7                     | 11                      | 3                       |
| -3                 | 1.1                |                                                   | 120        | 160  | 200  | -1                             | 540                      | 90                       | 63                       | 5                      | 1                       | 21                      | 9.1                     |
| -3.8               | 1.5                |                                                   | 70         | 90   | 115  | -1                             | 560                      | 80                       | 70                       | 8.5                    | 2.1                     | 37                      | 27                      |
| -8                 | 2.8                |                                                   | 21         | 28   | 40   | -0.9                           | 1370                     | 350                      | 258                      | 12.7                   | 3.4                     | 20.7                    | 5.2                     |
| -20                | 5                  |                                                   | 8          | 11.6 | 17.5 | -0.9                           | 2180                     | 675                      | 425                      | 20                     | 5.5                     | 28                      | 13                      |

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
† Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Low Voltage MOSFETs (Continued)

| Part Number    | Package | Configuration | Polarity | ESD Diode | Schottky Diode | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) |
|----------------|---------|---------------|----------|-----------|----------------|---------------------|----------------------|
| <b>DFN 2x5</b> |         |               |          |           |                |                     |                      |
| AON5802BG      | DFN 2x5 | Common Drain  | N        | Yes       | No             | 30                  | 12                   |
| AON5816        | DFN 2x5 | Common Drain  | N        | Yes       | No             | 20                  | 12                   |
| AON5820        | DFN 2x5 | Common Drain  | N        | Yes       | No             | 20                  | 12                   |
| <b>DFN 3x2</b> |         |               |          |           |                |                     |                      |
| AON4420L       | DFN 3x2 | Single        | N        | No        | No             | 30                  | 20                   |
| AON4407        | DFN 3x2 | Single        | P        | Yes       | No             | -12                 | 8                    |
| AON4703        | DFN 3x2 | Single        | P        | No        | Yes            | -20                 | 8                    |
| AON4421        | DFN 3x2 | Single        | P        | No        | No             | -30                 | 20                   |
| AON4803        | DFN 3x2 | Dual          | P        | No        | No             | -20                 | 8                    |
| AON4805L       | DFN 3x2 | Dual          | P        | No        | No             | -20                 | 8                    |
| AON4605        | DFN 3x2 | Complementary | N        | No        | No             | 30                  | 20                   |
| AON4605        | DFN 3x2 | Complementary | P        | No        | No             | -30                 | 20                   |
| <b>DFN 3x3</b> |         |               |          |           |                |                     |                      |
| AON3414        | DFN 3x3 | Single        | N        | Yes       | No             | 30                  | 20                   |
| AON3419        | DFN 3x3 | Single        | P        | No        | No             | -30                 | 20                   |
| AON3611        | DFN 3x3 | Complementary | N        | No        | No             | 30                  | 20                   |
| AON3611        | DFN 3x3 | Complementary | P        | No        | No             | -30                 | 20                   |
| AON7380        | DFN 3x3 | Single        | N        | No        | No             | 30                  | 20                   |
| AON7400A       | DFN 3x3 | Single        | N        | No        | No             | 30                  | 20                   |
| AON7406        | DFN 3x3 | Single        | N        | No        | No             | 30                  | 20                   |
| AON7408        | DFN 3x3 | Single        | N        | No        | No             | 30                  | 20                   |
| AON7410        | DFN 3x3 | Single        | N        | No        | No             | 30                  | 20                   |
| AON7414        | DFN 3x3 | Single        | N        | No        | No             | 30                  | 20                   |
| AON7422G       | DFN 3x3 | Single        | N        | Yes       | No             | 30                  | 20                   |
| AON7430        | DFN 3x3 | Single        | N        | No        | No             | 30                  | 20                   |
| AON7466        | DFN 3x3 | Single        | N        | No        | No             | 30                  | 25                   |
| AON7502        | DFN 3x3 | Single        | N        | No        | No             | 30                  | 25                   |
| AON7506        | DFN 3x3 | Single        | N        | No        | No             | 30                  | 20                   |
| AON7522E       | DFN 3x3 | Single        | N        | No        | No             | 30                  | 20                   |
| AON7524        | DFN 3x3 | Single        | N        | Yes       | No             | 30                  | 12                   |
| AON7530        | DFN 3x3 | Single        | N        | No        | No             | 30                  | 20                   |
| AON7534        | DFN 3x3 | Single        | N        | No        | No             | 30                  | 20                   |
| AON7538        | DFN 3x3 | Single        | N        | No        | No             | 30                  | 20                   |
| AON7544        | DFN 3x3 | Single        | N        | No        | No             | 30                  | 20                   |
| AON7566        | DFN 3x3 | Single        | N        | Yes       | No             | 30                  | 20                   |
| AON7611        | DFN 3x3 | Complementary | N        | No        | No             | 30                  | 20                   |
| AON7611        | DFN 3x3 | Complementary | P        | No        | No             | -30                 | 20                   |
| AON7752        | DFN 3x3 | Single        | N        | No        | Yes            | 30                  | 20                   |
| AON7934        | DFN 3x3 | Asymmetric    | N        | No        | No             | 30                  | 20                   |
| AON7934        | DFN 3x3 | Asymmetric    | P        | No        | No             | 30                  | 20                   |
| AON3818        | DFN 3x3 | Common Drain  | N        | Yes       | No             | 24                  | 12                   |
| AON3820        | DFN 3x3 | Common Drain  | N        | Yes       | No             | 24                  | 12                   |
| AON3814        | DFN 3x3 | Common Drain  | N        | Yes       | No             | 20                  | 12                   |
| AON3816        | DFN 3x3 | Common Drain  | N        | Yes       | No             | 20                  | 12                   |

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.  
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

| I <sub>D</sub> (A) | P <sub>D</sub> (W) | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |      |      |      | V <sub>GS(th)</sub><br>(max V) | C <sub>iss</sub><br>(pF) | C <sub>oss</sub><br>(pF) | C <sub>rss</sub><br>(pF) | Q <sub>g</sub><br>(nC) | Q <sub>gd</sub><br>(nC) | T <sub>rr</sub><br>(ns) | Q <sub>rr</sub><br>(nC) |
|--------------------|--------------------|---------------------------------------------------|------|------|------|--------------------------------|--------------------------|--------------------------|--------------------------|------------------------|-------------------------|-------------------------|-------------------------|
|                    |                    | 10V                                               | 4.5V | 2.5V | 1.8V |                                |                          |                          |                          |                        |                         |                         |                         |
| 11                 | 3.1                |                                                   | 6.5  | 8.5  |      | 1.5                            | 1050                     | 90                       | 65                       | 10.5                   | 4                       | 8                       | 10                      |
| 12                 | 1.7                |                                                   | 17   | 23   |      | 1.3                            | 2170                     | 330                      | 270                      | 22                     | 6                       | 23                      | 45                      |
| 10                 | 1.7                |                                                   | 9.5  | 13   |      | 1                              | 1255                     | 200                      | 168                      | 12.5                   | 6.5                     | 11                      | 15                      |
| 10                 | 1.6                | 19                                                | 25   |      |      | 2.5                            | 550                      | 110                      | 55                       | 4.6                    | 2.2                     | 11                      | 13                      |
| -9                 | 2.5                |                                                   | 20   | 25   | 31   | -0.85                          | 1740                     | 334                      | 200                      | 19                     | 5.3                     | 22                      | 17                      |
| -3.4               | 1.7                |                                                   | 90   | 120  | 160  | -1                             | 540                      | 80                       | 49                       | 6.1                    | 1.6                     | 37                      | 27                      |
| -8                 | 2.5                | 26                                                | 34   |      |      | -1.8                           | 930                      | 170                      | 120                      | 8.6                    | 3.4                     | 18                      | 32                      |
| -3.4               | 1.7                |                                                   | 90   | 120  | 165  | -1                             | 540                      | 80                       | 49                       | 6.1                    | 1.6                     | 21                      | 7.5                     |
| -4.5               | 2                  |                                                   | 65   | 85   | 115  | -1                             | 560                      | 80                       | 70                       | 8.5                    | 2.1                     | 37                      | 27                      |
| 4.3                | 1.9                | 65                                                | 115  |      |      | 3                              | 238                      | 35                       | 30                       | 3.1                    | 1.6                     | 7.5                     | 2.5                     |
| -3.4               | 1.9                | 110                                               | 180  |      |      | -3                             | 290                      | 42                       | 44                       | 3                      | 1.6                     | 11.3                    | 4.4                     |
| 10.5               | 3.1                | 17                                                | 23   |      |      | 2.4                            | 690                      | 105                      | 80                       | 7.5                    | 3                       | 7.5                     | 11.5                    |
| -10                | 3.1                | 19                                                | 32   |      |      | -2.5                           | 1040                     | 180                      | 125                      | 9.6                    | 4.5                     | 11.5                    | 25                      |
| 5                  | 2.1                | 50                                                | 70   |      |      | 2.5                            | 170                      | 35                       | 23                       | 2                      | 1                       | 7.5                     | 2.5                     |
| -6                 | 2.5                | 38                                                | 62   |      |      | -2.4                           | 520                      | 100                      | 65                       | 4.6                    | 2.2                     | 11                      | 5.3                     |
| 24                 | 24                 | 6.8                                               | 10.5 |      |      | 2.2                            | 825                      | 335                      | 40                       | 6.2                    | 2.6                     | 11                      | 17                      |
| 40                 | 25                 | 7.5                                               | 10.5 |      |      | 2.5                            | 1150                     | 180                      | 105                      | 9.5                    | 5                       | 8.7                     | 13.5                    |
| 25                 | 15.5               | 17                                                | 23   |      |      | 2.4                            | 740                      | 110                      | 82                       | 7.5                    | 3                       | 8                       | 18                      |
| 18                 | 11                 | 20                                                | 32   |      |      | 2.6                            | 373                      | 67                       | 41                       | 7.1                    | 1.6                     | 10.5                    | 4.5                     |
| 24                 | 20                 | 20                                                | 26   |      |      | 2.5                            | 550                      | 110                      | 55                       | 4.6                    | 2.2                     | 9                       | 15                      |
| 20                 | 15.5               | 15                                                | 20   |      |      | 2.2                            | 595                      | 98                       | 70                       | 6.8                    | 3.6                     | 9                       | 15                      |
| 32                 | 28                 | 4.6                                               | 7.2  |      |      | 2.4                            | 2300                     | 240                      | 210                      | 20                     | 12                      | 11                      | 15                      |
| 34                 | 23                 | 12                                                | 16   |      |      | 2.5                            | 760                      | 125                      | 70                       | 6.6                    | 3                       | 7                       | 8                       |
| 30                 | 25                 | 7.5                                               | 10.5 |      |      | 2.5                            | 1150                     | 180                      | 105                      | 4.6                    | 5                       | 8.7                     | 13.5                    |
| 30                 | 31                 | 4.7                                               | 7.6* |      |      | 3                              | 1022                     | 574                      | 63                       | 6.2                    | 3.5                     | 15.3                    | 20                      |
| 12                 | 20.5               | 9.8                                               | 15.8 |      |      | 2.3                            | 542                      | 233                      | 31                       | 4.3                    | 1.7                     | 9.7                     | 11.5                    |
| 34                 | 31                 | 4                                                 | 6.8  |      |      | 2.2                            | 1540                     | 485                      | 448                      | 19.7                   | 15                      | 15.2                    | 22.2                    |
| 28                 | 32                 | 3.3                                               | 4    | 5.8  |      | 1.2                            | 2250                     | 800                      | 65                       | 16                     | 5.2                     | 16                      | 23                      |
| 30                 | 24                 | 4.7                                               | 7.2  |      |      | 2.2                            | 1320                     | 530                      | 70                       | 8.8                    | 4                       | 13.5                    | 20.6                    |
| 30                 | 23                 | 5                                                 | 8.5  |      |      | 2.2                            | 1037                     | 441                      | 61                       | 6.8                    | 3.6                     | 12.7                    | 17.2                    |
| 30                 | 24                 | 5.1                                               | 8.2  |      |      | 2.2                            | 1128                     | 435                      | 59                       | 7.4                    | 2.3                     | 13.3                    | 25                      |
| 30                 | 23                 | 5                                                 | 8.5  |      |      | 2.2                            | 951                      | 373                      | 62                       | 7.5                    | 3.2                     | 10.2                    | 13.6                    |
| 34                 | 30                 | 3.7                                               | 5.2  |      |      | 2.4                            | 3020                     | 330                      | 280                      | 28                     | 17.5                    | 12                      | 20                      |
| 9                  | 7                  | 50                                                | 70   |      |      | 2.5                            | 170                      | 35                       | 23                       | 2                      | 1                       | 7.5                     | 2.5                     |
| -18.5              | 20.8               | 38                                                | 62   |      |      | -2.4                           | 520                      | 100                      | 65                       | 4.6                    | 2.2                     | 11                      | 5.3                     |
| 16                 | 20                 | 8.2                                               | 14.5 |      |      | 2.5                            | 605                      | 275                      | 36.5                     | 5.5                    | 2.6                     | 11.5                    | 12.5                    |
| 16                 | 23                 | 10.2                                              | 15.8 |      |      | 2.2                            | 485                      | 235                      | 32                       | 3.9                    | 2.1                     | 9.9                     | 12.9                    |
| 18                 | 25                 | 7.7                                               | 11.6 |      |      | 2.2                            | 807                      | 314                      | 40                       | 6                      | 3                       | 11.3                    | 15                      |
| 8                  | 2.7                |                                                   | 13.5 | 21   |      | 1.2                            | 840                      | 210                      | 205                      | 9.5                    | 4.5                     | 1.7                     | 5.2                     |
| 8                  | 2                  |                                                   | 8.9  | 11.8 |      | 1.3                            | 1325                     | 250                      | 220                      | 12.5†                  | 6                       |                         |                         |
| 6                  | 2.5                |                                                   | 17   | 24   |      | 1.1                            | 920                      | 155                      | 75                       | 11                     | 3.2                     | 7.9                     | 4.4                     |
| 4                  | 2.5                |                                                   | 22   | 28   |      | 1.1                            | 920                      | 155                      | 75                       | 11                     | 3.2                     | 7.9                     | 4.4                     |

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.

† Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Low Voltage MOSFETs (Continued)

| Part Number                     | Package     | Configuration | Polarity | ESD Diode | Schottky Diode | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) |
|---------------------------------|-------------|---------------|----------|-----------|----------------|---------------------|----------------------|
| AON3402                         | DFN 3x3     | Single        | N        | Yes       | No             | 20                  | 12                   |
| AON7404G                        | DFN 3x3     | Single        | N        | No        | No             | 20                  | 12                   |
| AON7407                         | DFN 3x3     | Single        | P        | No        | No             | -20                 | 8                    |
| AONR21307                       | DFN 3x3     | Single        | P        | No        | No             | -30                 | 25                   |
| AONR21321                       | DFN 3x3     | Single        | P        | No        | No             | -30                 | 25                   |
| AONR21357                       | DFN 3x3     | Single        | N        | No        | No             | -30                 | 25                   |
| AONR32314                       | DFN 3x3     | Single        | N        | No        | No             | 30                  | 20                   |
| AONR36366                       | DFN 3x3     | Single        | N        | No        | No             | 30                  | 20                   |
| AONR36368                       | DFN 3x3     | Single        | N        | No        | No             | 30                  | 20                   |
| AONR66406                       | DFN 3x3     | Single        | N        | No        | No             | 40                  | 20                   |
| <b>DFN 3.3x3.3</b>              |             |               |          |           |                |                     |                      |
| AON7318                         | DFN 3.3x3.3 | Single        | N        | No        | No             | 30                  | 20                   |
| AON7428                         | DFN 3.3x3.3 | Single        | N        | No        | No             | 30                  | 20                   |
| AON7442                         | DFN 3.3x3.3 | Single        | N        | No        | No             | 30                  | 20                   |
| AON7510                         | DFN 3.3x3.3 | Single        | N        | No        | No             | 30                  | 20                   |
| AON7520                         | DFN 3.3x3.3 | Single        | N        | Yes       | No             | 30                  | 12                   |
| AON7528                         | DFN 3.3x3.3 | Single        | N        | Yes       | No             | 30                  | 20                   |
| AON7421                         | DFN 3.3x3.3 | Single        | P        | No        | No             | -20                 | 12                   |
| AON7405                         | DFN 3.3x3.3 | Single        | P        | No        | No             | -30                 | 25                   |
| <b>DFN 3.3x3.3 (XSPairFET™)</b> |             |               |          |           |                |                     |                      |
| AONE36132                       | DFN 3.3x3.3 | Asymmetric    | N        | No        | No             | 25                  | 12                   |
| AONE36132                       | DFN 3.3x3.3 | Asymmetric    | N        | No        | No             | 25                  | 12                   |
| <b>DFN 5x6</b>                  |             |               |          |           |                |                     |                      |
| AON6204                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6312                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6314                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 30                   |
| AON6354                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6358                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6362                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6366E                        | DFN 5x6     | Single        | N        | Yes       | No             | 30                  | 20                   |
| AON6368                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6380                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6382                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6384                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6414A                        | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6428                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6500                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6516                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6522                         | DFN 5x6     | Single        | N        | No        | No             | 25                  | 20                   |
| AON6528                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6548                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6552                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6558                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6560                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |
| AON6566                         | DFN 5x6     | Single        | N        | No        | No             | 30                  | 20                   |

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

| I <sub>D</sub> (A) | P <sub>D</sub> (W) | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |      |      |      | V <sub>GS(th)</sub><br>(max V) | C <sub>iss</sub><br>(pF) | C <sub>oss</sub><br>(pF) | C <sub>rss</sub><br>(pF) | Q <sub>g</sub><br>(nC) | Q <sub>gd</sub><br>(nC) | T <sub>rr</sub><br>(ns) | Q <sub>rr</sub><br>(nC) |
|--------------------|--------------------|---------------------------------------------------|------|------|------|--------------------------------|--------------------------|--------------------------|--------------------------|------------------------|-------------------------|-------------------------|-------------------------|
|                    |                    | 10V                                               | 4.5V | 2.5V | 1.8V |                                |                          |                          |                          |                        |                         |                         |                         |
| 12                 | 3                  | 13                                                | 17   | 26   |      | 1                              | 1810                     | 232                      | 200                      | 17.9                   | 4.7                     | 20.2                    | 8                       |
| 20                 | 28                 |                                                   | 5.3  | 6.8  |      | 1.25                           | 3300                     | 485                      | 370                      | 31                     | 8                       | 17                      | 30                      |
| -40                | 29                 |                                                   | 9.5  | 12.5 | 18   | -0.9                           | 3495                     | 528                      | 425                      | 44†                    | 11                      | 33                      | 100                     |
| -24                | 28                 | 11                                                | 18.5 |      |      | -2.3                           | 1995                     | 300                      | 260                      | 17                     | 8.8                     | 13.3                    | 20                      |
| -24                | 24                 | 16.5                                              | 29.5 |      |      | -2.3                           | 1180                     | 185                      | 155                      | 11                     | 3                       | 10                      | 15                      |
| -34                | 30                 | 7.8                                               | 12.3 |      |      | -2.3                           | 2830                     | 430                      | 365                      | 25                     | 12                      | 62                      | 32                      |
| 30                 | 24                 | 8.7                                               | 12.3 |      |      | 2.25                           | 1420                     | 150                      | 95                       | 10                     | 4                       | 7.5                     | 9                       |
| 34                 | 28                 | 3.5                                               | 5.2  |      |      | 2.1                            | 1835                     | 480                      | 45                       | 11                     | 2.2                     | 13                      | 24                      |
| 32                 | 24                 | 5                                                 | 7.5  |      |      | 2.1                            | 1305                     | 340                      | 33                       | 7.5                    | 2.2                     | 11                      | 18                      |
| 30                 | 27                 | 6.1                                               | 9.4  |      |      | 2.5                            | 1480                     | 245                      | 13                       | 8.5                    | 3                       | 11                      | 21                      |
|                    |                    |                                                   |      |      |      |                                |                          |                          |                          |                        |                         |                         |                         |
| 50                 | 39                 | 1.95                                              | 3.1  |      |      | 2.3                            | 2840                     | 740                      | 80                       | 16.5                   | 4                       | 15.5                    | 36.5                    |
| 50                 | 83                 | 2.8                                               | 3.6  |      |      | 2.3                            | 2600                     | 430                      | 280                      | 24                     | 8                       | 18                      | 37                      |
| 50                 | 83                 | 1.9                                               | 3.3  |      |      | 2.2                            | 2994                     | 1276                     | 196                      | 23                     | 10                      | 20                      | 46                      |
| 75                 | 46                 | 1.25                                              | 2.1  |      |      | 2.0                            | 4500                     | 1400                     | 1310                     | 60                     | 40                      | 23                      | 49                      |
| 50                 | 83.3               | 1.8                                               | 2.1  | 3.1  |      | 1.2                            | 4175                     | 1505                     | 300                      | 37                     | 12.5                    | 20.3                    | 40.7                    |
| 50                 | 83                 | 2                                                 | 3.4  |      |      | 2.2                            | 2895                     | 1439                     | 149                      | 21.3                   | 9                       | 22.3                    | 54                      |
| -50                | 83                 | 4.6                                               | 5.8  | 9    |      | -1.2                           | 4550                     | 823                      | 563                      | 44                     | 14                      | 30                      | 75                      |
| -50                | 83                 | 6.2                                               | 8.9* |      |      | -2.8                           | 2450                     | 550                      | 370                      | 21                     | 12                      | 25                      | 47                      |
|                    |                    |                                                   |      |      |      |                                |                          |                          |                          |                        |                         |                         |                         |
| 60                 | 25                 | 4.6                                               | 6    |      |      | 1.8                            | 880                      | 250                      | 55                       | 6.5                    | 2.5                     | 9                       | 11.5                    |
| 60                 | 35.5               | 1.4                                               | 1.7  |      |      | 1.8                            | 3215                     | 860                      | 200                      | 25                     | 5                       | 16                      | 33.5                    |
|                    |                    |                                                   |      |      |      |                                |                          |                          |                          |                        |                         |                         |                         |
| 24                 | 31                 | 12                                                | 18   |      |      | 2.4                            | 510                      | 220                      | 22                       | 3.5                    | 1.4                     | 11                      | 17                      |
| 85                 | 50                 | 1.85                                              | 2.5  |      |      | 2.2                            | 3100                     | 875                      | 105                      | 20                     | 6                       | 17                      | 36                      |
| 85                 | 32.5               | 2.8                                               | 3.5  |      |      | 2.0                            | 1900                     | 400                      | 60                       | 13                     | 3.6                     | 12                      | 21.5                    |
| 83                 | 36                 | 3.3                                               | 5.2  |      |      | 2.2                            | 1330                     | 360                      | 55                       | 10                     | 3.5                     | 11                      | 17                      |
| 85                 | 48                 | 2.2                                               | 3.6  |      |      | 2.2                            | 2200                     | 1000                     | 100                      | 15                     | 4.7                     | 17                      | 42                      |
| 60                 | 31                 | 5.2                                               | 8.6  |      |      | 2.2                            | 820                      | 340                      | 40                       | 6.1                    | 2.4                     | 11                      | 19                      |
| 34                 | 46                 | 3.7                                               | 5.2  |      |      | 2.4                            | 3020                     | 330                      | 280                      | 28                     | 17                      | 12                      | 20                      |
| 52                 | 27                 | 6.1                                               | 9.5  |      |      | 2.2                            | 820                      | 340                      | 40                       | 6.1                    | 2                       | 11                      | 19                      |
| 24                 | 26                 | 6.8                                               | 10.5 |      |      | 2.2                            | 825                      | 335                      | 40                       | 6.2                    | 2.6                     | 11                      | 17                      |
| 85                 | 50                 | 1.85                                              | 2.5  |      |      | 2.2                            | 3100                     | 875                      | 105                      | 20                     | 6                       | 17                      | 36                      |
| 83                 | 36                 | 3.3                                               | 5.2  |      |      | 2.2                            | 1330                     | 360                      | 55                       | 10                     | 3.5                     | 11                      | 17                      |
| 50                 | 31                 | 8                                                 | 10.5 |      |      | 2.5                            | 1150                     | 180                      | 105                      | 9.5                    | 5                       | 8.7                     | 13.5                    |
| 43                 | 30                 | 10                                                | 14.5 |      |      | 2.2                            | 770                      | 240                      | 77                       | 7.1                    | 3.1                     | 11                      | 23                      |
| 200                | 83                 | 0.95                                              | 1.3  |      |      | 2                              | 7036                     | 2778                     | 353                      | 49.7                   | 21.4                    | 31                      | 106                     |
| 56                 | 25                 | 5                                                 | 8    |      |      | 2.2                            | 1229                     | 526                      | 83                       | 12                     | 5.5                     | 12.6                    | 15.2                    |
| 200                | 83                 | 950                                               | 1.3  |      |      | 2                              | 7036                     | 2778                     | 353                      | 49.7                   | 21.4                    | 31                      | 106                     |
| 30                 | 25                 | 6.3                                               | 9.8  |      |      | 2.2                            | 1037                     | 441                      | 61                       | 6.8                    | 3.6                     | 12.7                    | 17.2                    |
| 85                 | 83                 | 1.8                                               | 2.5  |      |      | 2.2                            | 4290                     | 1680                     | 300                      | 31.2                   | 14.6                    | 23.5                    | 60                      |
| 30                 | 25                 | 5                                                 | 8.5  |      |      | 2.2                            | 1037                     | 441                      | 61                       | 6.8                    | 3.6                     | 12.7                    | 17.2                    |
| 30                 | 24                 | 5.1                                               | 8.2  |      |      | 2.2                            | 1128                     | 435                      | 59                       | 7.4                    | 2.3                     | 13.3                    | 25                      |
| 200                | 208                | 0.68                                              | 1.1  |      |      | 2.2                            | 11500                    | 3400                     | 3100                     | 130                    | 92                      | 38.5                    | 120                     |
| 32                 | 25                 | 5                                                 | 8.5  |      |      | 2.4                            | 1300                     | 530                      | 75                       | 8.5                    | 2.5                     | 14                      | 25                      |

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.

† Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Low Voltage MOSFETs (Continued)

| Part Number        |            | Package        | Configuration | Polarity | ESD Diode | Schottky Diode | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) |
|--------------------|------------|----------------|---------------|----------|-----------|----------------|---------------------|----------------------|
| AON6572            |            | DFN 5x6        | Single        | N        | No        | No             | 30                  | 12                   |
| AON6576            |            | DFN 5x6        | Single        | N        | No        | No             | 30                  | 20                   |
| AON6586            |            | DFN 5x6        | Single        | N        | No        | No             | 30                  | 20                   |
| AON6588            |            | DFN 5x6        | Single        | N        | No        | No             | 30                  | 20                   |
| AON6590            |            | DFN 5x6        | Single        | N        | No        | No             | 40                  | 20                   |
| AON6594            |            | DFN 5x6        | Single        | N        | No        | No             | 30                  | 20                   |
| AON6596            |            | DFN 5x6        | Single        | N        | No        | No             | 30                  | 20                   |
| AON6661            |            | DFN 5x6        | Complementary | N        | No        | No             | 30                  | 20                   |
| AON6661            |            | DFN 5x6        | Complementary | P        | No        | No             | -30                 | 20                   |
| AON6667            |            | DFN 5x6        | Complementary | N        | No        | No             | 30                  | 20                   |
| AON6667            |            | DFN 5x6        | Complementary | P        | No        | No             | -30                 | 20                   |
| AON6792            |            | DFN 5x6        | Single        | N        | No        | Yes            | 30                  | 12                   |
| AON6403            |            | DFN 5x6        | Single        | P        | No        | No             | -30                 | 20                   |
| AON6405            |            | DFN 5x6        | Single        | P        | Yes       | No             | -30                 | 20                   |
| AON6407            |            | DFN 5x6        | Single        | P        | No        | No             | -30                 | 25                   |
| AON6411            |            | DFN 5x6        | Single        | P        | No        | No             | -20                 | 12                   |
| AON6816            |            | DFN 5x6        | Dual          | N        | Yes       | No             | 30                  | 20                   |
| AOND32324          |            | DFN 5x6        | Dual          | N        | No        | No             | 30                  | 20                   |
| AOND32324          |            | DFN 5x6        | Dual          | P        | No        | No             | -30                 | 20                   |
| AONS21307          |            | DFN 5x6        | Single        | P        | No        | No             | -30                 | 25                   |
| AONS21357          |            | DFN 5x6        | Single        | N        | No        | No             | -30                 | 25                   |
| <b>AONS32304</b>   | <b>NEW</b> | <b>DFN 5x6</b> | <b>Single</b> | <b>N</b> | <b>No</b> | <b>No</b>      | <b>30</b>           | <b>20</b>            |
| AONS32306          |            | DFN 5x6        | Single        | N        | No        | No             | 30                  | 20                   |
| AONS32314          |            | DFN 5x6        | Single        | N        | No        | No             | 30                  | 20                   |
| <b>AONS36314</b>   | <b>NEW</b> | <b>DFN 5x6</b> | <b>Single</b> | <b>N</b> | <b>No</b> | <b>No</b>      | <b>30</b>           | <b>12</b>            |
| <b>AONS36316</b>   | <b>NEW</b> | <b>DFN 5x6</b> | <b>Single</b> | <b>N</b> | <b>No</b> | <b>No</b>      | <b>30</b>           | <b>12</b>            |
| <b>AONS66612</b>   | <b>NEW</b> | <b>DFN 5x6</b> | <b>Single</b> | <b>N</b> | <b>No</b> | <b>No</b>      | <b>60</b>           | <b>20</b>            |
| DFN 5x6 (PairFET™) |            |                |               |          |           |                |                     |                      |
| AON6810            |            | DFN 5x6        | Common Drain  | N        | Yes       | No             | 30                  | 20                   |
| AON6812            |            | DFN 5x6        | Common Drain  | N        | Yes       | No             | 30                  | 20                   |
| AON6906A           |            | DFN 5x6        | Asymmetric    | N        | No        | No             | 30                  | 20                   |
| AON6906A           |            | DFN 5x6        | Asymmetric    | N        | No        | No             | 30                  | 20                   |
| AON6912A           |            | DFN 5x6        | Asymmetric    | N        | No        | No             | 30                  | 20                   |
| AON6912A           |            | DFN 5x6        | Asymmetric    | N        | No        | No             | 30                  | 20                   |
| AON6926            |            | DFN 5x6        | Asymmetric    | N        | No        | No             | 30                  | 20                   |
| AON6926            |            | DFN 5x6        | Asymmetric    | N        | No        | No             | 30                  | 20                   |
| AON6934A           |            | DFN 5x6        | Asymmetric    | N        | No        | No             | 30                  | 20                   |
| AON6934A           |            | DFN 5x6        | Asymmetric    | N        | No        | No             | 30                  | 20                   |
| AON6946            |            | DFN 5x6        | Asymmetric    | N        | No        | No             | 30                  | 20                   |
| AON6946            |            | DFN 5x6        | Asymmetric    | N        | No        | No             | 30                  | 20                   |
| AON6980            |            | DFN 5x6        | Asymmetric    | N        | No        | No             | 30                  | 20                   |
| AON6980            |            | DFN 5x6        | Asymmetric    | N        | No        | Yes            | 30                  | 12                   |
| AON6982            |            | DFN 5x6        | Asymmetric    | N        | No        | No             | 30                  | 20                   |
| AON6982            |            | DFN 5x6        | Asymmetric    | N        | No        | Yes            | 30                  | 12                   |
| AON6984            |            | DFN 5x6        | Asymmetric    | N        | No        | No             | 30                  | 20                   |
| AON6984            |            | DFN 5x6        | Asymmetric    | N        | No        | Yes            | 30                  | 12                   |

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

| I <sub>D</sub> (A) | P <sub>D</sub> (W) | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |            |      |      | V <sub>GS(th)</sub><br>(max V) | C <sub>iss</sub><br>(pF) | C <sub>oss</sub><br>(pF) | C <sub>rss</sub><br>(pF) | Q <sub>g</sub><br>(nC) | Q <sub>gd</sub><br>(nC) | T <sub>rr</sub><br>(ns) | Q <sub>rr</sub><br>(nC) |
|--------------------|--------------------|---------------------------------------------------|------------|------|------|--------------------------------|--------------------------|--------------------------|--------------------------|------------------------|-------------------------|-------------------------|-------------------------|
|                    |                    | 10V                                               | 4.5V       | 2.5V | 1.8V |                                |                          |                          |                          |                        |                         |                         |                         |
| 85                 | 48                 | 3.2                                               | 3.9        |      |      | 2                              | 3290                     | 855                      | 135                      | 20.3                   | 4.4                     | 16.5                    | 31                      |
| 32                 | 26                 | 4.7                                               | 7.2        |      |      | 2.2                            | 1320                     | 530                      | 70                       | 8.8                    | 4                       | 13.5                    | 20.6                    |
| 35                 | 41                 | 7.5                                               | 10.5       |      |      | 2.5                            | 1150                     | 180                      | 105                      | 9.5                    | 5                       | 8.7                     | 13.5                    |
| 32                 | 46                 | 3.3                                               | 4.8        |      |      | 2.2                            | 2160                     | 915                      | 115                      | 14                     | 6.3                     | 16.5                    | 34.2                    |
| 100                | 208                | 0.99                                              | 1.5        |      |      | 2.3                            | 8320                     | 1438                     | 85                       | 45                     | 7                       | 26                      | 83                      |
| 35                 | 39                 | 7                                                 | 11         |      |      | 2.2                            | 1037                     | 441                      | 61                       | 6.8                    | 3.6                     | 12.7                    | 17.2                    |
| 35                 | 41                 | 7.5                                               | 10.5       |      |      | 2.5                            | 1150                     | 180                      | 105                      | 9.5                    | 5                       | 8.7                     | 13.5                    |
| 16                 | 12.5               | 14                                                | 18         |      |      | 2.5                            | 760                      | 125                      | 70                       | 6.6                    | 3                       | 7                       | 8                       |
| -16                | 20                 | 22                                                | 35         |      |      | -2.5                           | 1040                     | 180                      | 125                      | 9.6                    | 4.6                     | 11.5                    | 25                      |
| 16                 | 10                 | 25                                                | 35         |      |      | 2.6                            | 373                      | 67                       | 41                       | 3.5                    | 1.6                     | 6                       | 6.6                     |
| -16                | 20                 | 22                                                | 35         |      |      | -2.5                           | 1040                     | 180                      | 125                      | 9.6                    | 4.6                     | 11.5                    | 25                      |
| 85                 | 48                 | 2                                                 | 2.5        |      |      | 1.9                            | 3110                     | 930                      | 100                      | 21                     | 5.6                     | 17.5                    | 43                      |
| -85                | 83                 | 3.1                                               | 4.3        |      |      | -2.2                           | 7600                     | 1320                     | 1050                     | 79                     | 33                      | 26                      | 78                      |
| -30                | 83                 | 7                                                 | 8          |      |      | -1.6                           | 4580                     | 755                      | 564                      | 41                     | 17                      | 32                      | 77                      |
| -85                | 83                 | 4.5                                               | 6*         |      |      | -2.6                           | 3505                     | 900                      | 650                      | 75†                    | 23                      | 35                      | 75                      |
| -85                | 156                | 2.1                                               | 2.5        | 3.6  |      | -1.3                           | 10290                    | 1910                     | 1395                     | 100                    | 36                      | 48                      | 178                     |
| 16                 | 21                 | 6.2                                               | 9.6        |      |      | 2.2                            | 1540                     | 485                      | 448                      | 19.7                   | 15                      | 15.2                    | 22.2                    |
| 16                 | 12.5               | 14                                                | 18         |      |      | 2.5                            | 760                      | 125                      | 70                       | 6.6                    | 3                       | 7                       | 8                       |
| -16                | 30                 | 12                                                | 19.5       |      |      | -2.3                           | 1995                     | 300                      | 260                      | 17                     | 8.8                     | 13.3                    | 20                      |
| -24                | 38                 | 11                                                | 18.5       |      |      | -2.3                           | 1995                     | 300                      | 260                      | 17                     | 8.8                     | 13.3                    | 20                      |
| -36                | 48                 | 7.8                                               | 12.3       |      |      | -2.3                           | 2830                     | 430                      | 365                      | 25                     | 12                      | 62                      | 32                      |
| <b>140</b>         | <b>78</b>          | <b>2.3</b>                                        | <b>3.2</b> |      |      | <b>2.1</b>                     | <b>5970</b>              | <b>580</b>               | <b>340</b>               | <b>40</b>              | <b>13</b>               | <b>13</b>               | <b>25</b>               |
| 36                 | 50                 | 3.6                                               | 4.7        |      |      | 2.1                            | 4080                     | 410                      | 265                      | 29                     | 9.5                     | 11                      | 19                      |
| 32                 | 25                 | 8.7                                               | 12.3       |      |      | 2.25                           | 1420                     | 150                      | 95                       | 10                     | 4                       | 7.5                     | 9                       |
| <b>85</b>          | <b>42</b>          | <b>2.9</b>                                        | <b>3.5</b> |      |      | <b>1.9</b>                     | <b>1890</b>              | <b>395</b>               | <b>55</b>                | <b>11.5</b>            | <b>2.5</b>              | <b>12</b>               | <b>21</b>               |
| <b>32</b>          | <b>26</b>          | <b>4.1</b>                                        | <b>4.9</b> |      |      | <b>1.9</b>                     | <b>2005</b>              | <b>430</b>               | <b>50</b>                | <b>13.5</b>            | <b>3.5</b>              | <b>12</b>               | <b>21</b>               |
| <b>100</b>         | <b>208</b>         | <b>1.65</b>                                       |            |      |      | <b>3.5</b>                     | <b>5300</b>              | <b>1500</b>              | <b>50</b>                | <b>78</b>              | <b>20</b>               | <b>30</b>               | <b>135</b>              |
| 20                 | 31                 | 4.4                                               | 6.5        |      |      | 2.2                            | 1720                     | 746                      | 61                       | 11                     | 3.2                     | 20                      | 30                      |
| 28                 | 31                 | 4                                                 | 6          |      |      | 2.2                            | 1720                     | 746                      | 61                       | 11                     | 3.2                     | 20                      | 30                      |
| 48                 | 45                 | 11.7                                              | 17.5       |      |      | 2.3                            | 570                      | 260                      | 20                       | 3.5                    | 1.4                     | 8.6                     | 14.1                    |
| 37                 | 31                 | 14.4                                              | 21.3       |      |      | 2.4                            | 510                      | 220                      | 22                       | 3.3                    | 1.4                     | 9                       | 14.7                    |
| 52                 | 30                 | 7.3                                               | 10.4       |      |      | 2.5                            | 1090                     | 125                      | 38                       | 7                      | 2.5                     | 7                       | 8                       |
| 34                 | 22                 | 13.7                                              | 19.3       |      |      | 2.5                            | 760                      | 490                      | 70                       | 6.6                    | 3                       | 13                      | 25                      |
| 50                 | 35                 | 8.5                                               | 12         |      |      | 2.4                            | 1130                     | 180                      | 40                       | 8                      | 3                       | 6.7                     | 13.5                    |
| 44                 | 31                 | 11                                                | 14         |      |      | 2.5                            | 1150                     | 465                      | 105                      | 9.5                    | 5                       | 12                      | 23                      |
| 28                 | 31                 | 5.2                                               | 9.5        |      |      | 2.2                            | 1037                     | 441                      | 61                       | 6.8                    | 3.6                     | 12                      | 17.2                    |
| 36                 | 33                 | 2.9                                               | 4.4        |      |      | 2.2                            | 2010                     | 898                      | 124                      | 17                     | 8                       | 14                      | 20.3                    |
| 16                 | 7.3                | 11.6                                              | 17         |      |      | 2.2                            | 485                      | 235                      | 32                       | 3.9                    | 2.1                     | 9.9                     | 12.9                    |
| 18                 | 13                 | 7.8                                               | 11.8       |      |      | 2.2                            | 807                      | 314                      | 40                       | 6                      | 3                       | 11.3                    | 15                      |
| 28                 | 23.5               | 6.8                                               | 10.3       |      |      | 2.2                            | 1095                     | 270                      | 28                       | 6.4                    | 2                       | 11                      | 24                      |
| 36                 | 32                 | 3.8                                               | 4.9        |      |      | 2                              | 3440                     | 515                      | 60                       | 21                     | 3.7                     | 15.7                    | 31.8                    |
| 50                 | 21                 | 5.2                                               | 8.4        |      |      | 2.2                            | 810                      | 335                      | 39                       | 6                      | 2.3                     | 11                      | 19                      |
| 85                 | 45                 | 2                                                 | 2.45       |      |      | 1.9                            | 3080                     | 920                      | 99                       | 20.7                   | 5.5                     | 17.5                    | 43                      |
| 50                 | 21                 | 5.2                                               | 8.4        |      |      | 2.2                            | 810                      | 335                      | 39                       | 6                      | 2.3                     | 11                      | 19                      |
| 82                 | 31                 | 2.8                                               | 3.45       |      |      | 1.9                            | 2120                     | 700                      | 69                       | 16.8                   | 4.9                     | 15.5                    | 33                      |

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.

† Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Low Voltage MOSFETs (Continued)

| Part Number                  | Package        | Configuration     | Polarity | ESD Diode | Schottky Diode | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) |
|------------------------------|----------------|-------------------|----------|-----------|----------------|---------------------|----------------------|
| AON6992                      | DFN 5x6        | Asymmetric        | N        | No        | No             | 30                  | 20                   |
| AON6992                      | DFN 5x6        | Asymmetric        | N        | No        | Yes            | 30                  | 12                   |
| AON6994                      | DFN 5x6        | Asymmetric        | N        | No        | No             | 30                  | 20                   |
| AON6994                      | DFN 5x6        | Asymmetric        | N        | No        | Yes            | 30                  | 12                   |
| AON6996                      | DFN 5x6        | Asymmetric        | N        | No        | No             | 30                  | 20                   |
| AON6996                      | DFN 5x6        | Asymmetric        | N        | No        | Yes            | 30                  | 12                   |
| AON6998                      | DFN 5x6        | Asymmetric        | N        | No        | No             | 30                  | 20                   |
| AON6998                      | DFN 5x6        | Asymmetric        | N        | No        | Yes            | 30                  | 12                   |
| AONY36352                    | DFN 5x6        | Asymmetric        | N        | No        | No             | 30                  | 20                   |
| AONY36352                    | DFN 5x6        | Asymmetric        | N        | No        | No             | 30                  | 12                   |
| <b>AONY36354</b> <i>NEW</i>  | <b>DFN 5x6</b> | <b>Asymmetric</b> | <b>N</b> | <b>No</b> | <b>No</b>      | <b>30</b>           | <b>20</b>            |
| <b>AONY36354</b> <i>NEW</i>  | <b>DFN 5x6</b> | <b>Asymmetric</b> | <b>N</b> | <b>No</b> | <b>No</b>      | <b>30</b>           | <b>12</b>            |
| <b>DFN 5x6E (XSPairFET™)</b> |                |                   |          |           |                |                     |                      |
| AOE6930                      | DFN 5x6E       | Asymmetric        | N        | No        | No             | 30                  | 20                   |
| AOE6930                      | DFN 5x6E       | Asymmetric        | N        | No        | No             | 30                  | 12                   |
| AOE6932                      | DFN 5x6E       | Asymmetric        | N        | No        | No             | 30                  | 20                   |
| AOE6932                      | DFN 5x6E       | Asymmetric        | N        | No        | No             | 30                  | 12                   |
| AOE6936                      | DFN 5x6E       | Asymmetric        | N        | No        | No             | 30                  | 20                   |
| AOE6936                      | DFN 5x6E       | Asymmetric        | N        | No        | No             | 30                  | 20                   |
| <b>SO-8</b>                  |                |                   |          |           |                |                     |                      |
| AO4306                       | SO-8           | Single            | N        | No        | No             | 30                  | 20                   |
| AO4402G                      | SO-8           | Single            | N        | No        | No             | 20                  | 12                   |
| AO4404B                      | SO-8           | Single            | N        | No        | No             | 30                  | 12                   |
| AO4406A                      | SO-8           | Single            | N        | No        | No             | 30                  | 20                   |
| AO4466                       | SO-8           | Single            | N        | No        | No             | 30                  | 20                   |
| AO4468                       | SO-8           | Single            | N        | No        | No             | 30                  | 20                   |
| AO4492                       | SO-8           | Single            | N        | No        | No             | 30                  | 20                   |
| AO4496                       | SO-8           | Single            | N        | No        | No             | 30                  | 20                   |
| AO4576                       | SO-8           | Single            | N        | No        | No             | 30                  | 20                   |
| AO4752                       | SO-8           | Single            | N        | No        | Yes            | 30                  | 20                   |
| AO4402                       | SO-8           | Single            | N        | No        | No             | 20                  | 12                   |
| AO4453                       | SO-8           | Single            | P        | No        | No             | -12                 | 8                    |
| AO4403                       | SO-8           | Single            | P        | No        | No             | -30                 | 12                   |
| AO4405                       | SO-8           | Single            | P        | No        | No             | -30                 | 20                   |
| AO4405E                      | SO-8           | Single            | P        | Yes       | No             | -30                 | 20                   |
| AO4411                       | SO-8           | Single            | P        | No        | No             | -30                 | 20                   |
| AO4419                       | SO-8           | Single            | P        | No        | No             | -30                 | 20                   |
| AO4449                       | SO-8           | Single            | P        | No        | No             | -30                 | 20                   |
| AO4459                       | SO-8           | Single            | P        | No        | No             | -30                 | 20                   |
| AO4425                       | SO-8           | Single            | P        | Yes       | No             | -38                 | 25                   |
| AO4840E                      | SO-8           | Dual              | N        | No        | No             | 40                  | 20                   |
| AO4800                       | SO-8           | Dual              | N        | No        | No             | 30                  | 12                   |
| AO4800B                      | SO-8           | Dual              | N        | No        | No             | 30                  | 12                   |
| AO4812                       | SO-8           | Dual              | N        | No        | No             | 30                  | 20                   |
| AO4818                       | SO-8           | Dual              | N        | Yes       | No             | 30                  | 20                   |
| AO4818B                      | SO-8           | Dual              | N        | Yes       | No             | 30                  | 20                   |

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

| I <sub>D</sub> (A) | P <sub>D</sub> (W) | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |            |      |      | V <sub>GS(th)</sub><br>(max V) | C <sub>iss</sub><br>(pF) | C <sub>oss</sub><br>(pF) | C <sub>rss</sub><br>(pF) | Q <sub>g</sub><br>(nC) | Q <sub>gd</sub><br>(nC) | T <sub>rr</sub><br>(ns) | Q <sub>rr</sub><br>(nC) |
|--------------------|--------------------|---------------------------------------------------|------------|------|------|--------------------------------|--------------------------|--------------------------|--------------------------|------------------------|-------------------------|-------------------------|-------------------------|
|                    |                    | 10V                                               | 4.5V       | 2.5V | 1.8V |                                |                          |                          |                          |                        |                         |                         |                         |
| 50                 | 21                 | 5.2                                               | 8.6        |      |      | 2.2                            | 820                      | 340                      | 40                       | 6.1                    | 2.4                     | 11                      | 19                      |
| 85                 | 45                 | 2                                                 | 2.5        |      |      | 1.9                            | 3110                     | 930                      | 100                      | 21                     | 5.6                     | 17.5                    | 43                      |
| 50                 | 21                 | 5.2                                               | 8.6        |      |      | 2.2                            | 820                      | 340                      | 40                       | 6.1                    | 2.4                     | 11                      | 19                      |
| 82                 | 31                 | 2.8                                               | 3.5        |      |      | 1.9                            | 2150                     | 710                      | 70                       | 17                     | 5                       | 15.5                    | 33                      |
| 50                 | 21                 | 5.2                                               | 8.6        |      |      | 2.2                            | 820                      | 340                      | 40                       | 6.1                    | 2.4                     | 11                      | 19                      |
| 60                 | 22                 | 3.9                                               | 5          |      |      | 1.9                            | 1350                     | 450                      | 60                       | 10.5                   | 3                       | 13                      | 22                      |
| 50                 | 21                 | 5.2                                               | 8.6        |      |      | 2.2                            | 820                      | 340                      | 40                       | 6.1                    | 2.4                     | 11                      | 19                      |
| 82                 | 31                 | 2.6                                               | 2.99       |      |      | 1.9                            | 2150                     | 710                      | 70                       | 17                     | 5                       | 15.5                    | 33                      |
| 49                 | 21                 | 5.3                                               | 9.1        |      |      | 2.1                            | 820                      | 230                      | 35                       | 5                      | 1.5                     | 9.5                     | 12.5                    |
| 85                 | 45                 | 2                                                 | 2.5        |      |      | 1.9                            | 2555                     | 520                      | 75                       | 16                     | 3                       | 14                      | 26.5                    |
| <b>49</b>          | <b>21</b>          | <b>5.3</b>                                        | <b>9.1</b> |      |      | <b>2.1</b>                     | <b>820</b>               | <b>230</b>               | <b>35</b>                | <b>5</b>               | <b>1.5</b>              | <b>9.5</b>              | <b>12.5</b>             |
| <b>85</b>          | <b>31.5</b>        | <b>2.6</b>                                        | <b>3.5</b> |      |      | <b>1.9</b>                     | <b>1890</b>              | <b>395</b>               | <b>55</b>                | <b>11.5</b>            | <b>2.5</b>              | <b>12</b>               | <b>21</b>               |
|                    |                    |                                                   |            |      |      |                                |                          |                          |                          |                        |                         |                         |                         |
| 22                 | 24                 | 4.3                                               | 7          |      |      | 2.1                            | 1075                     | 480                      | 55                       | 7                      | 2.5                     | 12.5                    | 21.5                    |
| 85                 | 75                 | 0.83                                              | 1.05       |      |      | 1.9                            | 5560                     | 1670                     | 200                      | 42                     | 12                      | 23                      | 72.5                    |
| 55                 | 24                 | 5                                                 | 8          |      |      | 2.2                            | 1150                     | 380                      | 55                       | 7.5                    | 3                       | 11.5                    | 20                      |
| 85                 | 52                 | 1.4                                               | 1.8        |      |      | 1.9                            | 4180                     | 880                      | 125                      | 30                     | 7                       | 17                      | 42                      |
| 55                 | 24                 | 5                                                 | 8          |      |      | 2.2                            | 1150                     | 380                      | 55                       | 7.5                    | 3                       | 11.5                    | 20                      |
| 85                 | 39                 | 2                                                 | 3          |      |      | 2.1                            | 2270                     | 650                      | 90                       | 15                     | 4.5                     | 14.5                    | 30                      |
|                    |                    |                                                   |            |      |      |                                |                          |                          |                          |                        |                         |                         |                         |
| 13                 | 3.1                | 11.5                                              | 15.5       |      |      | 2.5                            | 760                      | 125                      | 70                       | 6.6                    | 3                       | 7                       | 8                       |
| 20                 | 3.1                |                                                   | 5.9        | 7.3  |      | 1.25                           | 3300                     | 485                      | 370                      | 31                     | 8                       | 17                      | 30                      |
| 8.5                | 3.1                | 24                                                | 30         | 48   |      | 1.45                           | 630                      | 75                       | 50                       | 6                      | 1.8                     | 8.5                     | 2.6                     |
| 13                 | 3.1                | 11.5                                              | 15.5       |      |      | 2.5                            | 760                      | 125                      | 70                       | 6.6                    | 3                       | 7                       | 8                       |
| 10                 | 3.1                | 23                                                | 35         |      |      | 2.6                            | 373                      | 67                       | 41                       | 3.5                    | 1.6                     | 6                       | 6.6                     |
| 10.5               | 3.1                | 17                                                | 23         |      |      | 2.4                            | 740                      | 110                      | 82                       | 7.5                    | 3                       | 18                      | 9                       |
| 14                 | 3.1                | 9.5                                               | 14         |      |      | 2.2                            | 770                      | 240                      | 77                       | 7.1                    | 3.1                     | 11                      | 23                      |
| 10                 | 3.1                | 19.5                                              | 26         |      |      | 2.5                            | 550                      | 110                      | 55                       | 4.6                    | 2.2                     | 22                      | 14                      |
| 20                 | 3.1                | 5.8                                               | 9.8        |      |      | 2.2                            | 1037                     | 441                      | 61                       | 6.8                    | 3.6                     | 12.7                    | 17.2                    |
| 15                 | 3.1                | 8.8                                               | 15.5       |      |      | 2.5                            | 605                      | 275                      | 36.5                     | 5.5                    | 2.6                     | 11.5                    | 12.5                    |
| 20                 | 3.1                |                                                   | 5.5        | 7    |      | 1.6                            | 3860                     | 740                      | 580                      | 36                     | 12                      | 17                      | 36                      |
| -9                 | 2.5                |                                                   | 19         | 26   | 36   | -0.9                           | 1370                     | 350                      | 258                      | 12.7                   | 3.4                     | 20.7                    | 5.2                     |
| -6                 | 3.1                | 48                                                | 57         | 80   |      | -1.3                           | 645                      | 80                       | 55                       | 7                      | 2.5                     | 11                      | 3.5                     |
| -6                 | 3.1                | 50                                                | 85         |      |      | -2.4                           | 520                      | 100                      | 65                       | 4.6                    | 2.2                     | 11                      | 5.3                     |
| -6                 | 2.5                | 45                                                | 80         |      |      | -1.5                           | 495                      | 100                      | 56                       | 4.2                    | 2                       | 9                       | 13.5                    |
| -8                 | 3.1                | 32                                                | 55         |      |      | -2.4                           | 760                      | 140                      | 95                       | 6.7                    | 3.2                     | 15                      | 9.7                     |
| -9.7               | 3.1                | 20                                                | 35         |      |      | -2.5                           | 1040                     | 180                      | 125                      | 9.6                    | 4.6                     | 11.5                    | 25                      |
| -7                 | 3.1                | 34                                                | 54         |      |      | -2.4                           | 760                      | 140                      | 95                       | 6.7                    | 3.2                     | 15                      | 9.7                     |
| -6.5               | 3.1                | 46                                                | 72         |      |      | -2.4                           | 520                      | 100                      | 65                       | 4.6                    | 2.2                     | 11                      | 5.3                     |
| -14                | 3.1                | 11                                                |            |      |      | -3.5                           | 3800                     | 560                      | 350                      | 63 <sup>†</sup>        | 16.1                    | 35                      | 33                      |
| 6                  | 2                  | 28                                                | 35         |      |      | 2.6                            | 520                      | 65                       | 32                       | 4.5                    | 16.2                    | 8                       | 13                      |
| 6.9                | 2                  | 27                                                | 32         | 50   |      | 1.5                            | 630                      | 75                       | 50                       | 6                      | 1.8                     | 8.5                     | 2.6                     |
| 6.9                | 2                  | 27                                                | 32         | 50   |      | 1.5                            | 630                      | 75                       | 50                       | 6                      | 1.8                     | 8.5                     | 2.6                     |
| 6                  | 2                  | 30                                                | 42         |      |      | 2.4                            | 255                      | 45                       | 35                       | 2.55                   | 1.3                     | 8.5                     | 2.2                     |
| 8.5                | 2                  | 19                                                | 26         |      |      | 2.4                            | 740                      | 110                      | 82                       | 7.5                    | 3                       | 8                       | 18                      |
| 8.5                | 2                  | 19                                                | 26         |      |      | 2.4                            | 740                      | 110                      | 82                       | 7.5                    | 3                       | 8                       | 18                      |

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.

<sup>†</sup> Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Low Voltage MOSFETs (Continued)

| Part Number       | Package    | Configuration     | Polarity      | ESD Diode | Schottky Diode | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) |
|-------------------|------------|-------------------|---------------|-----------|----------------|---------------------|----------------------|
| AO4822            | SO-8       | Dual              | N             | No        | No             | 30                  | 20                   |
| AO4822A           | SO-8       | Dual              | N             | No        | No             | 30                  | 20                   |
| AO4832            | SO-8       | Dual              | N             | No        | No             | 30                  | 20                   |
| AO4838            | SO-8       | Dual              | N             | No        | No             | 30                  | 20                   |
| AO4842            | SO-8       | Dual              | N             | No        | No             | 30                  | 20                   |
| AO4854            | SO-8       | Dual              | N             | Yes       | No             | 30                  | 20                   |
| AO4862            | SO-8       | Dual              | N             | No        | No             | 30                  | 20                   |
| AO4862E           | SO-8       | Dual              | N             | No        | No             | 30                  | 20                   |
| AO4806            | SO-8       | Dual              | N             | Yes       | No             | 20                  | 12                   |
| AO9926B           | SO-8       | Dual              | N             | No        | No             | 20                  | 12                   |
| AO9926C           | SO-8       | Dual              | N             | No        | No             | 20                  | 12                   |
| AO4801            | SO-8       | Dual              | P             | No        | No             | -30                 | 12                   |
| AO4801A           | SO-8       | Dual              | P             | No        | No             | -30                 | 12                   |
| AO4803            | SO-8       | Dual              | P             | No        | No             | -30                 | 20                   |
| AO4803A           | SO-8       | Dual              | P             | No        | No             | -30                 | 20                   |
| AO4805            | SO-8       | Dual              | P             | No        | No             | -30                 | 25                   |
| AO4807            | SO-8       | Dual              | P             | No        | No             | -30                 | 20                   |
| AO4813            | SO-8       | Dual              | P             | No        | No             | -30                 | 20                   |
| AO4606            | SO-8       | Complementary     | N             | No        | No             | 30                  | 20                   |
| AO4606            | SO-8       | Complementary     | P             | No        | No             | -30                 | 20                   |
| AO4616            | SO-8       | Complementary     | N             | No        | No             | 30                  | 20                   |
| AO4616            | SO-8       | Complementary     | P             | No        | No             | -30                 | 20                   |
| AO4620            | SO-8       | Complementary     | N             | No        | No             | 30                  | 20                   |
| AO4620            | SO-8       | Complementary     | P             | No        | No             | -30                 | 20                   |
| AO4627            | SO-8       | Complementary     | N             | No        | No             | 30                  | 20                   |
| AO4627            | SO-8       | Complementary     | P             | No        | No             | -30                 | 20                   |
| AO4629            | SO-8       | Complementary     | N             | No        | No             | 30                  | 20                   |
| AO4629            | SO-8       | Complementary     | P             | No        | No             | -30                 | 20                   |
| AO4630            | SO-8       | Complementary     | N             | No        | No             | 30                  | 12                   |
| AO4630            | SO-8       | Complementary     | P             | No        | No             | -30                 | 12                   |
| AO4914            | SO-8       | Asymmetric        | N             | No        | No             | 30                  | 20                   |
| AO4914            | SO-8       | Asymmetric        | N             | No        | Yes            | 30                  | 20                   |
| AO4924            | SO-8       | Asymmetric        | N             | No        | No             | 30                  | 12                   |
| AO4924            | SO-8       | Asymmetric        | N             | No        | Yes            | 30                  | 12                   |
| AONS21321         | SO-8       | Single            | P             | No        | No             | -30                 | 25                   |
| AOSP21307         | SO-8       | Single            | P             | No        | No             | -30                 | 25                   |
| AOSP21321         | SO-8       | Single            | P             | No        | No             | -30                 | 25                   |
| AOSP21357         | SO-8       | Single            | N             | Yes       | No             | -30                 | 25                   |
| AOSP32314         | SO-8       | Single            | N             | No        | No             | 30                  | 20                   |
| AOSP32368         | SO-8       | Single            | N             | Yes       | No             | 30                  | 20                   |
| <b>Ultra SO-8</b> |            |                   |               |           |                |                     |                      |
| AOL1404G          | Ultra SO-8 | Single            | N             | No        | No             | 20                  | 12                   |
| <b>AOUS66923</b>  | <b>NEW</b> | <b>Ultra SO-8</b> | <b>Single</b> | <b>N</b>  | <b>No</b>      | <b>No</b>           | <b>100</b>           |
| <b>TO-251A</b>    |            |                   |               |           |                |                     |                      |
| AOI423            | TO-251A    | Single            | P             | No        | No             | -30                 | 25                   |
| <b>AOI21357</b>   | <b>NEW</b> | <b>TO-251A</b>    | <b>Single</b> | <b>P</b>  | <b>No</b>      | <b>No</b>           | <b>-30</b>           |

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

| I <sub>D</sub> (A) | P <sub>D</sub> (W) | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |           |      |      | V <sub>GS(th)</sub><br>(max V) | C <sub>iss</sub><br>(pF) | C <sub>oss</sub><br>(pF) | C <sub>rss</sub><br>(pF) | Q <sub>g</sub><br>(nC) | Q <sub>gd</sub><br>(nC) | T <sub>rr</sub><br>(ns) | Q <sub>rr</sub><br>(nC) |
|--------------------|--------------------|---------------------------------------------------|-----------|------|------|--------------------------------|--------------------------|--------------------------|--------------------------|------------------------|-------------------------|-------------------------|-------------------------|
|                    |                    | 10V                                               | 4.5V      | 2.5V | 1.8V |                                |                          |                          |                          |                        |                         |                         |                         |
| 8                  | 2                  | 19                                                | 26        |      |      | 2.4                            | 740                      | 110                      | 82                       | 7.5                    | 3                       | 8                       | 18                      |
| 8.5                | 2                  | 19                                                | 26        |      |      | 2.4                            | 740                      | 110                      | 82                       | 7.5                    | 3                       | 8                       | 18                      |
| 10                 | 2                  | 13                                                | 17.5      |      |      | 2.5                            | 760                      | 125                      | 70                       | 6.6                    | 3                       | 7                       | 8                       |
| 11                 | 2                  | 9.6                                               | 13        |      |      | 2.6                            | 1080                     | 180                      | 110                      | 8                      | 3                       | 8.5                     | 13                      |
| 7.7                | 2                  | 21                                                | 30        |      |      | 2.6                            | 373                      | 67                       | 41                       | 3.5                    | 1.7                     | 10.5                    | 4.5                     |
| 8                  | 2                  | 19                                                | 23        |      |      | 2.4                            | 740                      | 110                      | 82                       | 7.5                    | 3                       | 8                       | 18                      |
| 4.5                | 1.7                | 50                                                | 68        |      |      | 2.5                            | 200                      | 35                       | 25                       | 2                      | 1                       | 7.5                     | 2.5                     |
| 4.5                | 1.7                | 46                                                | 65        |      |      | 2.5                            | 215                      | 35                       | 20                       | 2                      | 1                       | 5.5                     | 7                       |
| 9.4                | 2                  | 14                                                | 16        | 22   | 30   | 1                              | 1810                     | 232                      | 200                      | 17.9                   | 4.7                     | 22                      | 8.6                     |
| 7.6                | 2                  | 23                                                | 26        | 34   | 52   | 1.1                            | 525                      | 95                       | 75                       | 6                      | 2                       | 14                      | 6                       |
| 7.6                | 2                  | 23                                                | 26        | 34   | 52   | 1.1                            | 525                      | 95                       | 75                       | 6                      | 2                       | 14                      | 6                       |
| -5                 | 2                  | 48                                                | 57        | 80   |      | -1.3                           | 645                      | 80                       | 55                       | 7                      | 2.5                     | 11                      | 3.5                     |
| -5                 | 2                  | 48                                                | 57        | 80   |      | -1.3                           | 645                      | 80                       | 55                       | 7                      | 2.5                     | 11                      | 3.5                     |
| -5                 | 2                  | 46                                                | 74        |      |      | -2.5                           | 520                      | 100                      | 65                       | 4.6                    | 2.2                     | 11                      | 5.3                     |
| -5                 | 2                  | 46                                                | 74        |      |      | -2.5                           | 520                      | 100                      | 65                       | 4.6                    | 2.2                     | 11                      | 5.3                     |
| -9                 | 2                  | 18                                                |           |      |      | -2.8                           | 2060                     | 370                      | 295                      | 30†                    | 10                      | 30                      | 22                      |
| -6                 | 2                  | 35                                                | 58        |      |      | -2.4                           | 760                      | 140                      | 95                       | 6.7                    | 3.2                     | 15                      | 9.7                     |
| -7.1               | 2                  | 25                                                | 40        |      |      | -2.5                           | 1040                     | 180                      | 125                      | 9.3                    | 4.6                     | 11.5                    | 25                      |
| 6                  | 2                  | 30                                                | 42        |      |      | 2.4                            | 255                      | 45                       | 35                       | 2.55                   | 1.3                     | 8.5                     | 2.2                     |
| -6.5               | 2                  | 28                                                | 44        |      |      | -2.4                           | 760                      | 140                      | 95                       | 6.7                    | 3.2                     | 15                      | 9.7                     |
| 8.5                | 2                  | 20                                                | 28        |      |      | 2.4                            | 740                      | 110                      | 82                       | 7.5                    | 3                       | 8                       | 18                      |
| -7                 | 2                  | 22                                                | 40        |      |      | -2.5                           | 1040                     | 180                      | 125                      | 9.6                    | 4.6                     | 11.5                    | 25                      |
| 7.2                | 2                  | 24                                                | 36        |      |      | 2.6                            | 373                      | 67                       | 41                       | 3.5                    | 1.7                     | 10.5                    | 4.5                     |
| -5.3               | 2                  | 32                                                | 55        |      |      | -2.4                           | 760                      | 140                      | 95                       | 6.7                    | 3.2                     | 15                      | 9.7                     |
| 4.5                | 2                  | 50                                                | 68        |      |      | 2.5                            | 170                      | 35                       | 23                       | 2                      | 1                       | 7.5                     | 2.5                     |
| -3.5               | 2                  | 100                                               | 165       |      |      | -2.4                           | 197                      | 42                       | 26                       | 2.2                    | 1.1                     | 11.3                    | 4.4                     |
| 6                  | 2                  | 30                                                | 42        |      |      | 2.4                            | 250                      | 45                       | 35                       | 2.55                   | 1.3                     | 8.5                     | 2.2                     |
| -5.5               | 2                  | 41                                                | 74        |      |      | -2.5                           | 520                      | 100                      | 65                       | 4.6                    | 2.2                     | 11                      | 5.3                     |
| 7                  | 2                  | 23                                                | 28        | 36   |      | 1.45                           | 670                      | 75                       | 45                       | 6                      | 14.5                    | 6.5                     | 7.5                     |
| -5                 | 2                  | 48                                                | 57        | 78   |      | -1.3                           | 700                      | 80                       | 60                       | 7                      |                         | 15                      | 40                      |
| 8.5                | 2                  | 20.5                                              | 28        |      |      | 2.4                            | 730                      | 165                      | 82                       | 7.5                    | 3                       | 8                       | 8                       |
| 8.5                | 2                  | 20.5                                              | 28        |      |      | 2.4                            | 740                      | 110                      | 82                       | 7.5                    | 3                       | 8                       | 18                      |
| 7.3                | 2                  | 24                                                | 29        |      |      | 1.5                            | 900                      | 224                      | 65                       | 10                     | 3.75                    | 10                      | 6.8                     |
| 9                  | 2                  | 15.8                                              | 19.5      |      |      | 2.4                            | 1450                     | 88                       | 92                       | 12                     | 4.2                     | 16.8                    | 8                       |
| -24                | 24.5               | 16.5                                              | 29.5      |      |      | -2.3                           | 1180                     | 185                      | 155                      | 11                     | 3                       | 13                      | 23                      |
| -14                | 3.1                | 11.5                                              | 18.5      |      |      | -2.3                           | 1995                     | 300                      | 260                      | 17                     | 8.8                     | 13.3                    | 20                      |
| -11                | 3.1                | 17                                                | 30        |      |      | -2.3                           | 1180                     | 185                      | 155                      | 11                     | 3                       | 10                      | 15                      |
| -16                | 3.1                | 8.5                                               | 13        |      |      | -2.3                           | 2830                     | 430                      | 365                      | 25                     | 12                      | 62                      | 32                      |
| 14.5               | 3.1                | 9                                                 | 12.6      |      |      | 2.25                           | 1420                     | 150                      | 95                       | 10                     | 4                       | 7.5                     | 9                       |
| 16                 | 3.1                | 5.5                                               | 7.5       |      |      | 2.4                            | 2270                     | 245                      | 200                      | 18                     | 10                      | 10.5                    | 16                      |
|                    |                    |                                                   |           |      |      |                                |                          |                          |                          |                        |                         |                         |                         |
| 46                 | 50                 |                                                   | 4.6       | 6    |      | 1.25                           | 3300                     | 485                      | 370                      | 31                     | 8                       | 17                      | 30                      |
| <b>58</b>          | <b>73</b>          | <b>11</b>                                         | <b>15</b> |      |      | <b>2.6</b>                     | <b>1725</b>              | <b>360</b>               | <b>7.5</b>               | <b>12.5</b>            | <b>3.5</b>              | <b>41</b>               | <b>156</b>              |
|                    |                    |                                                   |           |      |      |                                |                          |                          |                          |                        |                         |                         |                         |
| -70                | 90                 | 8.5                                               |           |      |      | -3.5                           | 2760                     | 550                      | 375                      | 45†                    | 12                      | 15                      | 30                      |
| <b>-70</b>         | <b>78</b>          | <b>8</b>                                          | <b>13</b> |      |      | <b>-2.3</b>                    | <b>2830</b>              | <b>430</b>               | <b>365</b>               | <b>25</b>              | <b>12</b>               | <b>32</b>               | <b>62</b>               |

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
† Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Medium Voltage MOSFETs

| Part Number        |            | Package         | Configuration | Polarity | ESD Diode | Schottky Diode | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) |
|--------------------|------------|-----------------|---------------|----------|-----------|----------------|---------------------|----------------------|
| <b>TO-251B</b>     |            |                 |               |          |           |                |                     |                      |
| <b>AOY423</b>      | <b>NEW</b> | <b>TO-251B</b>  | <b>Single</b> | <b>P</b> | <b>No</b> | <b>No</b>      | <b>30</b>           | <b>20</b>            |
| <b>AOY2610E</b>    | <b>NEW</b> | <b>TO-251B</b>  | <b>Single</b> | <b>N</b> | <b>No</b> | <b>No</b>      | <b>60</b>           | <b>20</b>            |
| <b>TO-252</b>      |            |                 |               |          |           |                |                     |                      |
| AOD480             |            | TO-252          | Single        | N        | No        | No             | 30                  | 20                   |
| AOD417             |            | TO-252          | Single        | P        | No        | No             | -30                 | 20                   |
| AOD418             |            | TO-252          | Single        | P        | No        | No             | 30                  | 20                   |
| AOD508             |            | TO-252          | Single        | N        | No        | No             | 30                  | 20                   |
| AOD516             |            | TO-252          | Single        | N        | No        | No             | 30                  | 20                   |
| AOD536             |            | TO-252          | Single        | N        | No        | No             | 30                  | 20                   |
| AOD538             |            | TO-252          | Single        | N        | No        | No             | 30                  | 20                   |
| AOD558             |            | TO-252          | Single        | N        | No        | No             | 30                  | 20                   |
| AOD607A            |            | TO-252          | Complementary | N        | No        | No             | 30                  | 20                   |
| AOD607A            |            | TO-252          | Complementary | P        | No        | No             | -30                 | 20                   |
| AOD661             |            | TO-252          | Complementary | P        | No        | No             | -30                 | 20                   |
| <b>AOD21357</b>    | <b>NEW</b> | <b>TO-252</b>   | <b>Single</b> | <b>P</b> | <b>No</b> | <b>No</b>      | <b>-30</b>          | <b>25</b>            |
| AOD4132            |            | TO-252          | Single        | N        | No        | No             | 30                  | 20                   |
| AOD424             |            | TO-252          | Single        | N        | No        | No             | 20                  | 12                   |
| AOD424G            |            | TO-252          | Single        | N        | No        | No             | 20                  | 12                   |
| <b>SOT-223</b>     |            |                 |               |          |           |                |                     |                      |
| AOH3254            |            | SOT-223         | Single        | N        | No        | No             | 150                 | 20                   |
| <b>SOT-23</b>      |            |                 |               |          |           |                |                     |                      |
| <b>AOSS62934</b>   | <b>NEW</b> | <b>SOT-23-3</b> | <b>Single</b> | <b>N</b> | <b>No</b> | <b>No</b>      | <b>100</b>          | <b>20</b>            |
| <b>TSOP-6</b>      |            |                 |               |          |           |                |                     |                      |
| AO6420             |            | TSOP-6          | Single        | N        | No        | No             | 60                  | 20                   |
| <b>DFN 2x2</b>     |            |                 |               |          |           |                |                     |                      |
| AON2392            |            | DFN 2x2C        | Single        | N        | No        | No             | 100                 | 20                   |
| AON2290            |            | DFN 2x2B        | Single        | N        | No        | No             | 100                 | 20                   |
| <b>DFN 3x3</b>     |            |                 |               |          |           |                |                     |                      |
| AON7460            |            | DFN 3x3         | Single        | N        | No        | No             | 300                 | 30                   |
| AON7462            |            | DFN 3x3         | Single        | N        | No        | No             | 300                 | 30                   |
| AON7458            |            | DFN 3x3         | Single        | N        | No        | No             | 250                 | 30                   |
| AON7296            |            | DFN 3x3         | Single        | N        | No        | No             | 100                 | 20                   |
| AON7262E           |            | DFN 3x3         | Single        | N        | Yes       | No             | 60                  | 20                   |
| AON7264E           |            | DFN 3x3         | Single        | N        | Yes       | No             | 60                  | 20                   |
| <b>DFN 3.3x3.3</b> |            |                 |               |          |           |                |                     |                      |
| AON7254            |            | DFN 3.3x3.3     | Single        | N        | No        | No             | 150                 | 20                   |
| AON7292            |            | DFN 3.3x3.3     | Single        | N        | No        | No             | 100                 | 20                   |
| AONR62921          |            | DFN 3.3x3.3     | Single        | N        | No        | No             | 100                 | 20                   |
| AONR66922          |            | DFN 3.3x3.3     | Single        | N        | No        | No             | 100                 | 20                   |
| AONR62818          |            | DFN 3.3x3.3     | Single        | N        | No        | No             | 80                  | 20                   |
| AON7280            |            | DFN 3.3x3.3     | Single        | N        | No        | No             | 80                  | 20                   |
| AON7140            |            | DFN 3.3x3.3     | Single        | N        | No        | No             | 40                  | 20                   |

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

| I <sub>D</sub> (A)<br>25°C | P <sub>D</sub> (W)<br>25°C | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |             |      |      | VGS(th)<br>(max V) | Ciss<br>(pF) | Coss<br>(pF) | Crss<br>(pF) | Qg<br>(nC) | Qgd<br>(nC) | Trr<br>(ns) | Qrr<br>(nC) |
|----------------------------|----------------------------|---------------------------------------------------|-------------|------|------|--------------------|--------------|--------------|--------------|------------|-------------|-------------|-------------|
|                            |                            | 10V                                               | 4.5V        | 2.5V | 1.8V |                    |              |              |              |            |             |             |             |
| <b>-70</b>                 | <b>90</b>                  | <b>8.5</b>                                        |             |      |      | <b>-3.5</b>        | <b>2760</b>  | <b>550</b>   | <b>375</b>   | <b>45†</b> | <b>12</b>   | <b>15</b>   | <b>30</b>   |
| <b>46</b>                  | <b>59.5</b>                | <b>9.5</b>                                        | <b>13.3</b> |      |      | <b>2.4</b>         | <b>1100</b>  | <b>300</b>   | <b>28</b>    | <b>7</b>   | <b>3.5</b>  | <b>19</b>   | <b>65</b>   |
| 25                         | 21                         | 23                                                | 33          |      |      | 2.6                | 373          | 67           | 41           | 3.5        | 1.6         | 10.5        | 4.5         |
| -25                        | 50                         | 34                                                | 55          |      |      | -3                 | 920          | 140          | 90           | 8.2        | 3.6         | 23          | 14          |
| 36                         | 50                         | 7.5                                               | 11          |      |      | 2.5                | 1150         | 180          | 105          | 9.5        | 5           | 8.7         | 13.5        |
| 70                         | 50                         | 3                                                 | 4.5         |      |      | 2.2                | 2010         | 898          | 124          | 17         | 8           | 14          | 20.3        |
| 46                         | 50                         | 5                                                 | 10          |      |      | 2.6                | 1333         | 512          | 42           | 8.5        | 2.5         | 14.1        | 16.2        |
| 46                         | 37.5                       | 8.5                                               | 14.7        |      |      | 2.2                | 1140         | 400          | 45           | 6.5        | 2.5         | 12          | 20          |
| 70                         | 93                         | 3.1                                               | 4.8         |      |      | 3.1                | 2160         | 915          | 115          | 14         | 6.3         | 16.5        | 34.2        |
| 50                         | 50                         | 5.4                                               | 9.5         |      |      | 2.4                | 1187         | 483          | 60           | 4.1        | 3.6         | 14.7        | 24          |
| 8                          | 19                         | 25                                                | 38          |      |      | 2.6                | 395          | 67           | 41           | 3.5        | 1.7         | 6           | 6.6         |
| -12                        | 30                         | 27                                                | 45          |      |      | -2.4               | 730          | 140          | 90           | 6.7        | 3.2         | 12          | 25.5        |
| -12                        | 31                         | 22.5                                              | 36          |      |      | -2.5               | 1040         | 180          | 125          | 9.6        | 4.6         | 11.5        | 25          |
| <b>-70</b>                 | <b>78</b>                  | <b>8</b>                                          | <b>13</b>   |      |      | <b>-2.3</b>        | <b>2830</b>  | <b>430</b>   | <b>365</b>   | <b>35</b>  | <b>12</b>   | <b>32</b>   | <b>62</b>   |
| 85                         | 100                        | 4                                                 | 6           |      |      | 3                  | 3700         | 700          | 390          | 33         | 17.6        | 34          | 30          |
| 45                         | 100                        | 4.4                                               | 5.7         |      |      | 1.6                | 3860         | 740          | 580          | 36         | 12          | 17          | 36          |
| 46                         | 50                         |                                                   | 4.9         | 6.3  |      | 1.25               | 3300         | 485          | 370          | 31         | 8           | 17          | 30          |
| 5                          | 4.1                        | 63                                                | 77          |      |      | 2.7                | 675          | 78           | 4            | 5.5        | 2.5         | 37          | 210         |
| <b>2.0</b>                 | <b>1.4</b>                 | <b>140</b>                                        | <b>180</b>  |      |      | <b>2.7</b>         | <b>250</b>   | <b>19</b>    | <b>2.5</b>   | <b>1.8</b> | <b>0.8</b>  | <b>12</b>   | <b>27</b>   |
| 4.2                        | 2                          | 60                                                | 75          |      |      | 3                  | 450          | 60           | 25           | 4.3        | 2.2         | 25.1        | 28.7        |
| 8                          | 4.1                        | 32                                                | 39          |      |      | 2.4                | 840          | 64           | 4            | 6.1        | 1.8         | 20          | 70          |
| 4.5                        | 2.8                        | 72                                                | 97          |      |      | 2.8                | 415          | 32           | 3            | 3          | 1.5         | 16          | 44          |
| 4                          | 33                         | 830                                               |             |      |      | 4.5                | 310          | 45           | 2.9          | 6.8        | 2           | 88          | 290         |
| 2.5                        | 25                         | 1500                                              |             |      |      | 4.5                | 197          | 30           | 2            | 4.6†       | 1.5         | 95          | 220         |
| 5                          | 33                         | 560                                               |             |      |      | 4.3                | 306          | 51           | 3.2          | 6          | 1.5         | 77          | 290         |
| 12.5                       | 20.8                       | 66                                                | 90          |      |      | 2.8                | 415          | 32           | 3            | 3          | 1.5         | 16          | 44          |
| 34                         | 43                         | 6.2                                               | 8.5         |      |      | 2.2                | 1652         | 520          | 52           | 15         | 6.5         | 19          | 60          |
| 28                         | 27.5                       | 9.5                                               | 13.3        |      |      | 2.4                | 1100         | 300          | 28           | 7          | 3.5         | 19          | 65          |
| 17                         | 39                         | 54                                                | 66          |      |      | 2.7                | 675          | 78           | 4            | 5.5        | 2.5         | 37          | 210         |
| 23                         | 28                         | 24                                                | 32          |      |      | 2.6                | 1170         | 90           | 8            | 8          | 3.5         | 24          | 110         |
| 50                         | 54                         | 10.2                                              | 12.6        |      |      | 2.3                | 2450         | 180          | 11           | 15.5       | 5           | 25          | 123         |
| 50                         | 52                         | 9.0                                               | 12          |      |      | 2.5                | 2180         | 550          | 13           | 15         | 5           | 32          | 138         |
| 50                         | 54                         | 6.6                                               | 9.5         |      |      | 2.3                | 2420         | 280          | 15           | 15         | 4           | 24          | 100         |
| 50                         | 83                         | 8.5                                               | 12*         |      |      | 3.4                | 1871         | 265          | 14           | 26.5†      | 4           | 32          | 162         |
| 50                         | 46                         | 2.3                                               | 3.5         |      |      | 2.4                | 3350         | 580          | 65           | 18         | 21.2        | 16          | 42          |

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
† Qg measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Medium Voltage MOSFETs (Continued)

| Part Number       |            | Package        | Configuration | Polarity | ESD Diode | Schottky Diode | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) |
|-------------------|------------|----------------|---------------|----------|-----------|----------------|---------------------|----------------------|
| <b>DFN 5x6</b>    |            |                |               |          |           |                |                     |                      |
| AON6458           |            | DFN 5x6        | Single        | N        | No        | No             | 250                 | 30                   |
| AON6250           |            | DFN 5x6        | Single        | N        | No        | No             | 150                 | 20                   |
| AON6220           |            | DFN 5x6        | Single        | N        | No        | No             | 100                 | 20                   |
| AON6290           |            | DFN 5x6        | Single        | N        | No        | No             | 100                 | 20                   |
| AON6292           |            | DFN 5x6        | Single        | N        | No        | No             | 100                 | 20                   |
| AON6298           |            | DFN 5x6        | Single        | N        | No        | No             | 100                 | 20                   |
| AON6452           |            | DFN 5x6        | Single        | N        | No        | No             | 100                 | 25                   |
| AON6482           |            | DFN 5x6        | Single        | N        | No        | No             | 100                 | 20                   |
| AON6276           |            | DFN 5x6        | Single        | N        | No        | No             | 80                  | 20                   |
| AON6278           |            | DFN 5x6        | Single        | N        | No        | No             | 80                  | 20                   |
| AON6280           |            | DFN 5x6        | Single        | N        | No        | No             | 80                  | 20                   |
| AON6282           |            | DFN 5x6        | Single        | N        | No        | No             | 80                  | 20                   |
| AON6284           |            | DFN 5x6        | Single        | N        | No        | No             | 80                  | 20                   |
| AON6284A          |            | DFN 5x6        | Single        | N        | No        | No             | 80                  | 20                   |
| AON6262E          |            | DFN 5x6        | Single        | N        | Yes       | No             | 60                  | 20                   |
| AON6264E          |            | DFN 5x6        | Single        | N        | Yes       | No             | 60                  | 20                   |
| AON6266E          |            | DFN 5x6        | Single        | N        | No        | No             | 60                  | 20                   |
| AON6160           |            | DFN 5x6        | Single        | N        | No        | No             | 60                  | 20                   |
| AON6162           |            | DFN 5x6        | Single        | N        | No        | No             | 60                  | 20                   |
| AON6152           |            | DFN 5x6        | Single        | N        | No        | No             | 45                  | 20                   |
| AON6154           |            | DFN 5x6        | Single        | N        | No        | No             | 45                  | 20                   |
| AON6156           |            | DFN 5x6        | Single        | N        | No        | No             | 45                  | 20                   |
| AON6144           |            | DFN 5x6        | Single        | N        | No        | No             | 40                  | 20                   |
| AON6590           |            | DFN 5x6        | Single        | N        | No        | No             | 40                  | 20                   |
| AON6884           |            | DFN 5x6        | Dual          | N        | No        | No             | 40                  | 20                   |
| AONS62602         |            | DFN 5x6        | Single        | N        | No        | No             | 60                  | 20                   |
| AONS62614         |            | DFN 5x6        | Single        | N        | No        | No             | 60                  | 20                   |
| AONS62618         |            | DFN 5x6        | Single        | N        | No        | No             | 60                  | 20                   |
| AONS62920         |            | DFN 5x6        | Single        | N        | No        | No             | 100                 | 20                   |
| AONS62922         |            | DFN 5x6        | Single        | N        | No        | No             | 120                 | 20                   |
| AONS66402         |            | DFN 5x6        | Single        | N        | No        | No             | 40                  | 20                   |
| AONS66406         |            | DFN 5x6        | Single        | N        | No        | No             | 40                  | 20                   |
| AONS66916         |            | DFN 5x6        | Single        | N        | No        | No             | 100                 | 20                   |
| <b>AONS66920</b>  | <b>NEW</b> | <b>DFN 5x6</b> | <b>Single</b> | <b>N</b> | <b>No</b> | <b>No</b>      | <b>100</b>          | <b>20</b>            |
| AONS66923         |            | DFN 5x6        | Single        | N        | No        | No             | 100                 | 20                   |
| AONS66612         |            | DFN 5x6        | Single        | N        | No        | No             | 60                  | 20                   |
| AONY36352         |            | DFN 5x6        | Asymmetric    | N        | No        | No             | 30                  | 20                   |
| AONY36352         |            | DFN 5x6        | Asymmetric    | N        | No        | No             | 30                  | 12                   |
| AONY36354         |            | DFN 5x6        | Asymmetric    | N        | No        | No             | 30                  | 20                   |
| AONY36354         |            | DFN 5x6        | Asymmetric    | N        | No        | No             | 30                  | 12                   |
| <b>DFN 8x6</b>    |            |                |               |          |           |                |                     |                      |
| <b>AOMU66414Q</b> | <b>NEW</b> | <b>DFN 8x6</b> | <b>Dual</b>   | <b>N</b> | <b>No</b> | <b>No</b>      | <b>40</b>           | <b>20</b>            |
| <b>AOMU66414Q</b> | <b>NEW</b> | <b>DFN 8x6</b> | <b>Dual</b>   | <b>N</b> | <b>No</b> | <b>No</b>      | <b>40</b>           | <b>20</b>            |

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

| I <sub>D</sub> (A) | P <sub>D</sub> (W) | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |             |      |      | V <sub>GS(th)</sub><br>(max V) | C <sub>iss</sub><br>(pF) | C <sub>oss</sub><br>(pF) | C <sub>rss</sub><br>(pF) | Q <sub>g</sub><br>(nC) | Q <sub>gd</sub><br>(nC) | T <sub>rr</sub><br>(ns) | Q <sub>rr</sub><br>(nC) |
|--------------------|--------------------|---------------------------------------------------|-------------|------|------|--------------------------------|--------------------------|--------------------------|--------------------------|------------------------|-------------------------|-------------------------|-------------------------|
|                    |                    | 10V                                               | 4.5V        | 2.5V | 1.8V |                                |                          |                          |                          |                        |                         |                         |                         |
| 14                 | 83                 | 170                                               |             |      |      | 4.5                            | 1028                     | 167                      | 11                       | 22 <sup>†</sup>        | 8                       | 158                     | 1000                    |
| 52                 | 104                | 16.5                                              | 19*         |      |      | 3.4                            | 2388                     | 213                      | 9.5                      | 30.5 <sup>†</sup>      | 4.5                     | 68                      | 560                     |
| 48                 | 113.5              | 6.2                                               | 7.4         |      |      | 2.3                            | 4525                     | 345                      | 22.5                     | 30                     | 9                       | 32                      | 162                     |
| 85                 | 208                | 4.6                                               | 6.2*        |      |      | 3.4                            | 4600                     | 415                      | 27                       | 28.5                   | 10                      | 40                      | 230                     |
| 85                 | 156                | 6                                                 | 8.5*        |      |      | 3.4                            | 3830                     | 327                      | 16.5                     | 15.5                   | 7                       | 19                      | 225                     |
| 46                 | 78                 | 16.5                                              | 21*         |      |      | 3.4                            | 1307                     | 127                      | 8                        | 16 <sup>†</sup>        | 3                       | 30                      | 132                     |
| 26                 | 35                 | 25                                                | 31*         |      |      | 4                              | 1770                     | 165                      | 55                       | 28 <sup>†</sup>        | 10                      | 20                      | 82                      |
| 28                 | 75                 | 37                                                | 42          |      |      | 2.7                            | 1630                     | 100                      | 50                       | 18                     | 9                       | 32                      | 200                     |
| 100                | 215                | 2.6                                               |             |      |      | 3.2                            | 4940                     | 770                      | 40                       | 68 <sup>†</sup>        | 14                      | 32                      | 168                     |
| 85                 | 208                | 3.3                                               | 4.6*        |      |      | 3.3                            | 4646                     | 632                      | 31                       | 61.5 <sup>†</sup>      | 9.5                     | 32                      | 174                     |
| 85                 | 83                 | 4.1                                               | 5*          |      |      | 3.2                            | 3930                     | 592                      | 66                       | 58 <sup>†</sup>        | 14                      | 36                      | 153                     |
| 85                 | 83                 | 5.6                                               | 8*          |      |      | 3.5                            | 2848                     | 392                      | 22.5                     | 36.5 <sup>†</sup>      | 6                       | 30                      | 126                     |
| 78                 | 78                 | 7.1                                               | 10*         |      |      | 3.3                            | 2162                     | 300                      | 16                       | 28 <sup>†</sup>        | 4.5                     | 26                      | 118                     |
| 48                 | 56                 | 6.5                                               | 8.5*        |      |      | 2.3                            | 2540                     | 310                      | 18.5                     | 16.5 <sup>†</sup>      | 6                       | 23                      | 91                      |
| 40                 | 48                 | 6.2                                               | 8.5         |      |      | 2.2                            | 1650                     | 520                      | 52                       | 15                     | 6.5                     | 19                      | 60                      |
| 28                 | 37.5               | 9.5                                               | 13.3        |      |      | 2.4                            | 1100                     | 300                      | 28                       | 7                      | 3.5                     | 19                      | 65                      |
| 24                 | 26                 | 13.2                                              | 17.7        |      |      | 2.2                            | 755                      | 220                      | 20                       | 6.5                    | 3                       | 17                      | 54                      |
| 100                | 215                | 1.58                                              |             |      |      | 3.4                            | 6485                     | 1050                     | 30                       | 85                     | 13                      | 33                      | 176                     |
| 100                | 215                | 2.1                                               |             |      |      | 3.2                            | 4850                     | 1700                     | 130                      | 70 <sup>†</sup>        | 16                      | 30                      | 150                     |
| 100                | 208                | 1.15                                              | 1.85        |      |      | 2.3                            | 7410                     | 1120                     | 75                       | 37                     | 5.5                     | 25                      | 71                      |
| 100                | 125                | 1.5                                               | 2.1         |      |      | 2.4                            | 6575                     | 870                      | 82                       | 38                     | 16                      | 22                      | 60                      |
| 100                | 78                 | 2.5                                               | 4           |      |      | 2.5                            | 3975                     | 545                      | 62                       | 23                     | 16                      | 19                      | 43                      |
| 100                | 78                 | 2.4                                               | 3.5         |      |      | 2.4                            | 3780                     | 675                      | 60                       | 22                     | 16                      | 17                      | 45                      |
| 100                | 208                | 0.99                                              | 1.5         |      |      | 2.3                            | 8320                     | 1438                     | 85                       | 45                     | 7                       | 26                      | 83                      |
| 34                 | 21                 | 11.3                                              | 13.8        |      |      | 2.7                            | 1500                     | 215                      | 135                      | 13.6                   | 6.4                     | 13                      | 35                      |
| 85                 | 208                | 2.5                                               | 3.6         |      |      | 2.5                            | 5630                     | 1510                     | 95                       | 35.5                   | 9.5                     | 27                      | 113                     |
| 100                | 119                | 2.5                                               | 3.4         |      |      | 2.2                            | 3660                     | 1160                     | 108                      | 32                     | 11.5                    | 26                      | 92                      |
| 44                 | 56                 | 4.7                                               | 6.3         |      |      | 2.3                            | 2520                     | 670                      | 65                       | 21                     | 8.5                     | 22                      | 80                      |
| 48                 | 113.5              | 6.3                                               | 7.6         |      |      | 2.3                            | 4525                     | 345                      | 22.5                     | 30                     | 9                       | 32                      | 162                     |
| 85                 | 215                | 7                                                 | 9           |      |      | 2.4                            | 3295                     | 360                      | 9                        | 20                     | 5.5                     | 43                      | 355                     |
| 85                 | 119                | 1.6                                               | 2.3         |      |      | 2.5                            | 1480                     | 245                      | 13                       | 8.5                    | 3                       | 11                      | 21                      |
| 30                 | 6.1                | 9.4                                               |             |      |      | 2.3                            | 1480                     | 245                      | 13                       | 8.5                    | 3                       | 11                      | 21                      |
| 100                | 215                | 3.6                                               |             |      |      | 3.6                            | 5325                     | 1240                     | 16                       | 67 <sup>†</sup>        | 9                       | 42                      | 215                     |
| <b>48</b>          | <b>56.5</b>        | <b>8.2</b>                                        | <b>10.7</b> |      |      | <b>2.5</b>                     | <b>2500</b>              | <b>485</b>               | <b>13</b>                | <b>16.7</b>            | <b>5</b>                | <b>34</b>               | <b>170</b>              |
| 47                 | 48                 | 10.8                                              | 14.8        |      |      | 2.6                            | 1725                     | 360                      | 7.5                      | 12.5                   | 3.5                     | 41                      | 156                     |
| 100                | 208                | 1.65                                              |             |      |      | 3.5                            | 5300                     | 1500                     | 50                       | 78                     | 20                      | 30                      | 135                     |
| 49                 | 21                 | 5.3                                               | 9.1         |      |      | 2.1                            | 820                      | 230                      | 35                       | 5                      | 1.5                     | 9.5                     | 12.5                    |
| 85                 | 45                 | 2                                                 | 2.5         |      |      | 1.9                            | 2555                     | 520                      | 75                       | 16                     | 3                       | 14                      | 26.5                    |
| 49                 | 21                 | 5.3                                               | 9.1         |      |      | 2.1                            | 820                      | 230                      | 35                       | 5                      | 1.5                     | 9.5                     | 12.5                    |
| 85                 | 31.5               | 2.6                                               | 3.5         |      |      | 1.9                            | 1890                     | 395                      | 55                       | 11.5                   | 2.5                     | 12                      | 21                      |
| <b>85</b>          | <b>68</b>          | <b>2.3</b>                                        | <b>3.5</b>  |      |      | <b>2.4</b>                     | <b>3350</b>              | <b>580</b>               | <b>65</b>                | <b>18</b>              | <b>3.5</b>              | <b>16</b>               | <b>42</b>               |
| <b>85</b>          | <b>65</b>          | <b>2.3</b>                                        | <b>3.5</b>  |      |      | <b>2.4</b>                     | <b>3350</b>              | <b>580</b>               | <b>65</b>                | <b>18</b>              | <b>3.5</b>              | <b>16</b>               | <b>42</b>               |

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
<sup>†</sup> Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Medium Voltage MOSFETs (Continued)

| Part Number       |            | Package           | Configuration | Polarity | ESD Diode  | Schottky Diode | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) |
|-------------------|------------|-------------------|---------------|----------|------------|----------------|---------------------|----------------------|
| <b>SO-8</b>       |            |                   |               |          |            |                |                     |                      |
| AO4286            |            | SO-8              | Single        | N        | No         | No             | 100                 | 20                   |
| AO4482            |            | SO-8              | Single        | N        | No         | No             | 100                 | 20                   |
| AO4892            |            | SO-8              | Dual          | N        | No         | No             | 100                 | 20                   |
| AOSP66923         |            | SO-8              | Single        | N        | No         | No             | 100                 | 20                   |
| AOSD62666E        |            | SO-8              | Dual          | N        | Yes        | No             | 60                  | 20                   |
| AO4262E           |            | SO-8              | Single        | N        | Yes        | No             | 60                  | 20                   |
| AO4264E           |            | SO-8              | Single        | N        | Yes        | No             | 60                  | 20                   |
| AO4266E           |            | SO-8              | Single        | N        | No         | No             | 60                  | 20                   |
| AO4268            |            | SO-8              | Single        | N        | No         | No             | 60                  | 20                   |
| AO4484            |            | SO-8              | Single        | N        | No         | No             | 40                  | 20                   |
| AO4443            |            | SO-8              | Single        | P        | No         | No             | -40                 | 20                   |
| AO4485            |            | SO-8              | Single        | P        | No         | No             | -40                 | 20                   |
| AO4492            |            | SO-8              | Single        | N        | No         | No             | 30                  | 20                   |
| AO4421            |            | SO-8              | Single        | P        | No         | No             | -60                 | 20                   |
| AO4441            |            | SO-8              | Single        | P        | No         | No             | -60                 | 20                   |
| AO4828            |            | SO-8              | Dual          | N        | No         | No             | 60                  | 20                   |
| AO4840E           |            | SO-8              | Dual          | N        | Yes        | No             | 40                  | 20                   |
| AO4884            |            | SO-8              | Dual          | N        | No         | No             | 40                  | 20                   |
| AO4612            |            | SO-8              | Complementary | N        | No         | No             | 60                  | 20                   |
| AO4612            |            | SO-8              | Complementary | P        | No         | No             | -60                 | 20                   |
| AO4614B           |            | SO-8              | Complementary | N        | No         | No             | 40                  | 20                   |
| AO4614B           |            | SO-8              | Complementary | P        | No         | No             | -40                 | 20                   |
| <b>AOSP66406</b>  | <b>NEW</b> | <b>SO-8</b>       | <b>Single</b> | <b>N</b> | <b>No</b>  | <b>No</b>      | <b>40</b>           | <b>20</b>            |
| <b>Ultra SO-8</b> |            |                   |               |          |            |                |                     |                      |
| <b>AOL1454G</b>   | <b>NEW</b> | <b>Ultra SO-8</b> | <b>Single</b> | <b>N</b> | <b>Yes</b> | <b>No</b>      | <b>40</b>           | <b>20</b>            |
| AOL1482           |            | Ultra SO-8        | Single        | N        | Yes        | No             | 100                 | 20                   |
| AOUS66923         |            | Ultra SO-8        | Single        | N        | Yes        | No             | 100                 | 20                   |
| <b>TOLLA</b>      |            |                   |               |          |            |                |                     |                      |
| AOTL66401         |            | TOLLA             | Single        | N        | No         | No             | 40                  | 20                   |
| <b>TO-220</b>     |            |                   |               |          |            |                |                     |                      |
| AOT9N40           |            | TO-220            | Single        | N        | No         | No             | 400                 | 30                   |
| AOT12N40          |            | TO-220            | Single        | N        | No         | No             | 400                 | 30                   |
| AOT12N30          |            | TO-220            | Single        | N        | No         | No             | 300                 | 30                   |
| AOT20N25          |            | TO-220            | Single        | N        | No         | No             | 250                 | 30                   |
| AOT2500L          |            | TO-220            | Single        | N        | No         | No             | 150                 | 20                   |
| AOT2502L          |            | TO-220            | Single        | N        | No         | No             | 150                 | 20                   |
| AOT292L           |            | TO-220            | Single        | N        | No         | No             | 100                 | 20                   |
| AOT296L           |            | TO-220            | Single        | N        | No         | No             | 100                 | 20                   |
| AOT2904           |            | TO-220            | Single        | N        | No         | No             | 100                 | 20                   |
| AOT2910L          |            | TO-220            | Single        | N        | No         | No             | 100                 | 20                   |
| AOT2916L          |            | TO-220            | Single        | N        | No         | No             | 100                 | 20                   |
| AOT280L           |            | TO-220            | Single        | N        | No         | No             | 80                  | 20                   |
| AOT282L           |            | TO-220            | Single        | N        | No         | No             | 80                  | 20                   |
| AOT284L           |            | TO-220            | Single        | N        | No         | No             | 80                  | 20                   |

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

| I <sub>D</sub> (A) | P <sub>D</sub> (W) | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |       |      |      | V <sub>GS(th)</sub><br>(max V) | C <sub>iss</sub><br>(pF) | C <sub>oss</sub><br>(pF) | C <sub>rss</sub><br>(pF) | Q <sub>g</sub><br>(nC) | Q <sub>gd</sub><br>(nC) | T <sub>rr</sub><br>(ns) | Q <sub>rr</sub><br>(nC) |
|--------------------|--------------------|---------------------------------------------------|-------|------|------|--------------------------------|--------------------------|--------------------------|--------------------------|------------------------|-------------------------|-------------------------|-------------------------|
|                    |                    | 10V                                               | 4.5V  | 2.5V | 1.8V |                                |                          |                          |                          |                        |                         |                         |                         |
| 4                  | 2.5                | 68                                                | 92    |      |      | 2.9                            | 390                      | 30                       | 3                        | 2.8                    | 1.2                     | 15                      | 53                      |
| 6                  | 3.1                | 37                                                | 42    |      |      | 2.7                            | 1630                     | 100                      | 50                       | 18                     | 9                       | 25                      | 130                     |
| 4                  | 2                  | 68                                                | 94    |      |      | 2.8                            | 415                      | 32                       | 3                        | 3                      | 1.5                     | 16                      | 44                      |
| 12                 | 3.1                | 11                                                | 15    |      |      | 2.6                            | 1725                     | 360                      | 7.5                      | 12.5                   | 3.5                     | 33                      | 120                     |
| 9.5                | 2.5                | 14.5                                              | 19    |      |      | 2.2                            | 755                      | 220                      | 20                       | 6.5                    | 3                       | 15                      | 45                      |
| 16.5               | 3.1                | 6.5                                               | 8.5   |      |      | 2.2                            | 1650                     | 520                      | 52                       | 15                     | 6.5                     | 19                      | 60                      |
| 13.5               | 3.1                | 9.8                                               | 13.5  |      |      | 2.4                            | 1100                     | 300                      | 28                       | 7                      | 3.5                     | 18.5                    | 59                      |
| 11                 | 3.1                | 13.5                                              | 18    |      |      | 2.2                            | 755                      | 220                      | 20                       | 6.5                    | 3                       | 15                      | 45                      |
| 19                 | 3.1                | 4.8                                               | 6.5   |      |      | 2.3                            | 2500                     | 670                      | 65                       | 21                     | 6.5                     | 22                      | 80                      |
| 10                 | 1.7                | 10                                                | 12.5  |      |      | 3                              | 1500                     | 215                      | 135                      | 13.6                   | 6.4                     | 30                      | 19                      |
| -6                 | 3.1                | 42                                                | 63    |      |      | -2.6                           | 940                      | 97                       | 72                       | 8.4                    | 4.3                     | 17                      | 11.5                    |
| -10                | 1.7                | 15                                                | 20    |      |      | -2.5                           | 2500                     | 260                      | 180                      | 18.6                   | 8.6                     | 38                      | 47                      |
| 14                 | 3.1                | 9.5                                               | 14    |      |      | 2.2                            | 770                      | 240                      | 77                       | 7.1                    | 3.1                     | 11                      | 23                      |
| -6.2               | 3.1                | 40                                                | 50    |      |      | -3                             | 2417                     | 179                      | 120                      | 22.7                   | 9.2                     | 34                      | 47                      |
| -4                 | 3.1                | 100                                               | 130   |      |      | -3                             | 930                      | 85                       | 35                       | 8                      | 3.2                     | 27                      | 32                      |
| 4.5                | 2                  | 56                                                | 77    |      |      | 3                              | 450                      | 60                       | 25                       | 4.3                    | 2.2                     | 27.5                    | 32                      |
| 6                  | 2                  | 28                                                | 35    |      |      | 2.6                            | 520                      | 65                       | 32                       | 4.5                    | 1.5                     | 8                       | 13                      |
| 10                 | 2                  | 13                                                | 16    |      |      | 2.7                            | 1500                     | 215                      | 135                      | 13.6                   | 6.4                     | 13                      | 35                      |
| 4.5                | 2                  | 56                                                | 77    |      |      | 3                              | 450                      | 60                       | 25                       | 4.3                    | 2.2                     | 27.5                    | 32                      |
| -3.2               | 2                  | 105                                               | 135   |      |      | -3                             | 930                      | 85                       | 35                       | 8                      | 3.2                     | 27                      | 32                      |
| 6                  | 2                  | 30                                                | 38    |      |      | 3                              | 516                      | 82                       | 43                       | 4.3                    | 1.4                     | 18                      | 10                      |
| -5                 | 2                  | 45                                                | 63    |      |      | -3                             | 940                      | 97                       | 72                       | 7.9                    | 3.2                     | 21                      | 14                      |
| 17                 | 3.1                | 6.6                                               | 10    |      |      | 2.5                            | 1480                     | 245                      | 13                       | 8.5                    | 3                       | 11                      | 21                      |
| 50                 | 60                 | 9                                                 | 13    |      |      | 3                              | 1600                     | 320                      | 100                      | 10.5                   | 4.8                     | 31                      | 33                      |
| 28                 | 75                 | 37                                                | 42    |      |      | 2.7                            | 1630                     | 100                      | 50                       | 18                     | 9                       | 32                      | 200                     |
| 58                 | 73                 | 11                                                | 15    |      |      | 2.6                            | 1725                     | 360                      | 7.5                      | 12.5                   | 3.5                     | 41                      | 156                     |
| 400                | 300                | 0.7                                               | 0.95  |      |      | 2.3                            | 19180                    | 3110                     | 180                      | 100                    | 22                      | 35                      | 160                     |
| 8                  | 132                | 800                                               |       |      |      | 4.5                            | 630                      | 73                       | 5.7                      | 13.1 <sup>†</sup>      | 4.8                     | 195                     | 1900                    |
| 11                 | 184                | 590                                               |       |      |      | 4.5                            | 925                      | 100                      | 6.4                      | 17 <sup>†</sup>        | 5.7                     | 235                     | 2400                    |
| 11.5               | 132                | 420                                               |       |      |      | 4.5                            | 632                      | 90                       | 7                        | 12.8 <sup>†</sup>      | 4.3                     | 170                     | 1300                    |
| 20                 | 208                | 170                                               |       |      |      | 4.5                            | 1028                     | 167                      | 11                       | 20 <sup>†</sup>        | 8                       | 179                     | 1600                    |
| 152                | 375                | 6.5                                               | 7.6*  |      |      | 3.5                            | 6460                     | 586                      | 22                       | 97 <sup>†</sup>        | 17                      | 90                      | 1090                    |
| 106                | 277                | 11                                                |       |      |      | 5.1                            | 3010                     | 345                      | 14                       | 43 <sup>†</sup>        | 10                      | 75                      | 880                     |
| 105                | 300                | 4.5                                               | 5.3*  |      |      | 3.4                            | 6775                     | 557                      | 32                       | 90 <sup>†</sup>        | 13.5                    | 50                      | 380                     |
| 70                 | 107                | 10                                                | 12.5* |      |      | 3.4                            | 2785                     | 238                      | 12                       | 16.5                   | 5                       | 35                      | 210                     |
| 120                | 326                | 4.4                                               |       |      |      | 3.3                            | 7085                     | 605                      | 32                       | 93                     | 16                      | 49                      | 460                     |
| 30                 | 50                 | 24                                                | 33    |      |      | 2.7                            | 1190                     | 95                       | 7                        | 7                      | 2.5                     | 30                      | 145                     |
| 23                 | 41.5               | 34                                                | 43.5  |      |      | 2.7                            | 870                      | 68                       | 3.5                      | 5.5                    | 2                       | 20                      | 88                      |
| 140                | 333                | 2.7                                               | 3.5*  |      |      | 3.4                            | 11135                    | 1315                     | 80                       | 160 <sup>†</sup>       | 28                      | 44                      | 348                     |
| 105                | 272.5              | 3.5                                               | 5.2*  |      |      | 3.5                            | 7765                     | 960                      | 66                       | 58                     | 21                      | 40                      | 320                     |
| 105                | 250                | 4.5                                               | 5.7*  |      |      | 3.3                            | 5154                     | 673                      | 48                       | 33.5                   | 11.5                    | 38                      | 230                     |

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.

<sup>†</sup> Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Medium Voltage MOSFETs (Continued)

| Part Number                  | Package        | Configuration | Polarity | ESD Diode | Schottky Diode | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) |
|------------------------------|----------------|---------------|----------|-----------|----------------|---------------------|----------------------|
| AOT286L                      | TO-220         | Single        | N        | No        | No             | 80                  | 20                   |
| AOT288L                      | TO-220         | Single        | N        | No        | No             | 80                  | 20                   |
| AOT270AL                     | TO-220         | Single        | N        | No        | No             | 75                  | 20                   |
| AOT430                       | TO-220         | Single        | N        | No        | No             | 75                  | 25                   |
| AOT470                       | TO-220         | Single        | N        | No        | No             | 75                  | 25                   |
| <b>AOT66616L</b> <b>NEW</b>  | <b>TO-220</b>  | <b>Single</b> | <b>N</b> | <b>No</b> | <b>No</b>      | <b>60</b>           | <b>20</b>            |
| AOT2140L                     | TO-220         | Single        | N        | No        | No             | 40                  | 20                   |
| AOT2142L                     | TO-220         | Single        | N        | No        | No             | 40                  | 20                   |
| AOT2144L                     | TO-220         | Single        | N        | No        | No             | 40                  | 20                   |
| AOT2146L                     | TO-220         | Single        | N        | No        | No             | 40                  | 20                   |
| <b>TO-220F</b>               |                |               |          |           |                |                     |                      |
| AOTF20N40                    | TO-220F        | Single        | N        | No        | No             | 400                 | 30                   |
| AOTF12N30                    | TO-220F        | Single        | N        | No        | No             | 300                 | 30                   |
| AOTF454L                     | TO-220F        | Single        | N        | No        | No             | 150                 | 20                   |
| AOTF292L                     | TO-220F        | Single        | N        | No        | No             | 100                 | 20                   |
| AOTF296L                     | TO-220F        | Single        | N        | No        | No             | 100                 | 20                   |
| AOTF2910L                    | TO-220F        | Single        | N        | No        | No             | 100                 | 20                   |
| AOTF2916L                    | TO-220F        | Single        | N        | No        | No             | 100                 | 20                   |
| AOTF4126                     | TO-220F        | Single        | N        | No        | No             | 100                 | 25                   |
| AOTF286L                     | TO-220F        | Single        | N        | No        | No             | 80                  | 20                   |
| AOTF288L                     | TO-220F        | Single        | N        | No        | No             | 80                  | 20                   |
| <b>AOTF66616L</b> <b>NEW</b> | <b>TO-220F</b> | <b>Single</b> | <b>N</b> | <b>No</b> | <b>No</b>      | <b>60</b>           | <b>20</b>            |
| AOTF2142L                    | TO-220F        | Single        | N        | No        | No             | 40                  | 20                   |
| AOTF2144L                    | TO-220F        | Single        | N        | No        | No             | 40                  | 20                   |
| AOTF2146L                    | TO-220F        | Single        | N        | No        | No             | 40                  | 20                   |
| AOTF4185                     | TO-220F        | Single        | P        | No        | No             | -40                 | 20                   |
| AOTF409                      | TO-220F        | Single        | P        | No        | No             | -60                 | 20                   |
| <b>TO-247</b>                |                |               |          |           |                |                     |                      |
| AOK40N30                     | TO-247         | Single        | N        | No        | No             | 300                 | 30                   |
| AOK60N30L                    | TO-247         | Single        | N        | No        | No             | 300                 | 30                   |
| <b>TO-251A</b>               |                |               |          |           |                |                     |                      |
| AOI5N40                      | TO-251A        | Single        | N        | No        | No             | 400                 | 30                   |
| AOI468                       | TO-251A        | Single        | N        | No        | No             | 300                 | 30                   |
| AOI8N25                      | TO-251A        | Single        | N        | No        | No             | 250                 | 30                   |
| AOI478                       | TO-251A        | Single        | N        | No        | No             | 100                 | 20                   |
| AOI4126                      | TO-251A        | Single        | N        | No        | No             | 100                 | 25                   |
| AOI4286                      | TO-251A        | Single        | N        | No        | No             | 100                 | 20                   |
| AOI444                       | TO-251A        | Single        | N        | No        | No             | 60                  | 20                   |
| AOI2610E                     | TO-251A        | Single        | N        | No        | No             | 60                  | 20                   |
| AOI4184                      | TO-251A        | Single        | N        | No        | No             | 40                  | 20                   |
| AOI4185                      | TO-251A        | Single        | N        | No        | No             | -40                 | 20                   |
| AOI66406                     | TO-251A        | Single        | N        | No        | No             | 40                  | 20                   |
| AOI423                       | TO-251A        | Single        | P        | No        | No             | -30                 | 25                   |
| AOI538                       | TO-251A        | Single        | N        | No        | No             | 30                  | 20                   |
| <b>AOI21357</b> <b>NEW</b>   | <b>TO-251A</b> | <b>Single</b> | <b>P</b> | <b>No</b> | <b>No</b>      | <b>-30</b>          | <b>25</b>            |
| AOI409                       | TO-251A        | Single        | N        | No        | No             | -60                 | 20                   |

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

| I <sub>D</sub> (A) | P <sub>D</sub> (W) | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |           |      |      | V <sub>GS(th)</sub><br>(max V) | C <sub>iss</sub><br>(pF) | C <sub>oss</sub><br>(pF) | C <sub>rss</sub><br>(pF) | Q <sub>g</sub><br>(nC) | Q <sub>gd</sub><br>(nC) | T <sub>rr</sub><br>(ns) | Q <sub>rr</sub><br>(nC) |
|--------------------|--------------------|---------------------------------------------------|-----------|------|------|--------------------------------|--------------------------|--------------------------|--------------------------|------------------------|-------------------------|-------------------------|-------------------------|
|                    |                    | 10V                                               | 4.5V      | 2.5V | 1.8V |                                |                          |                          |                          |                        |                         |                         |                         |
| 70                 | 167                | 6                                                 | 7.9*      |      |      | 3.3                            | 3142                     | 435                      | 43                       | 44.5 <sup>†</sup>      | 8                       | 29                      | 161                     |
| 46                 | 93.5               | 9.2                                               | 12.5*     |      |      | 3.4                            | 1871                     | 265                      | 14                       | 26.5                   | 4                       | 32                      | 162                     |
| 140                | 500                | 2.6                                               | 3.2*      |      |      | 3.3                            | 10830                    | 1520                     | 97                       | 147 <sup>†</sup>       | 30                      | 53                      | 438                     |
| 80                 | 268                | 11.5                                              |           |      |      | 4                              | 4700                     | 400                      | 180                      | 114 <sup>†</sup>       | 18                      | 53                      | 143                     |
| 100                | 268                | 10.5                                              |           |      |      | 4                              | 4700                     | 400                      | 180                      | 114 <sup>†</sup>       | 18                      | 53                      | 143                     |
| <b>140</b>         | <b>125</b>         | <b>3.2</b>                                        |           |      |      | <b>3.4</b>                     | <b>2870</b>              | <b>940</b>               | <b>38</b>                | <b>42.5</b>            | <b>10</b>               | <b>26</b>               | <b>87</b>               |
| 195                | 272                | 1.5                                               | 2         |      |      | 2.3                            | 9985                     | 1635                     | 95                       | 54                     | 11                      | 29                      | 107                     |
| 120                | 312                | 1.9                                               | 2.5       |      |      | 2.3                            | 8320                     | 1438                     | 85                       | 45                     | 7                       | 26                      | 83                      |
| 120                | 187                | 2.3                                               | 4         |      |      | 2.4                            | 5225                     | 895                      | 55                       | 28                     | 4.5                     | 20                      | 60                      |
| 105                | 119                | 2.8                                               | 3.9       |      |      | 2.5                            | 3830                     | 630                      | 45                       | 20                     | 3                       | 18.5                    | 50                      |
|                    |                    |                                                   |           |      |      |                                |                          |                          |                          |                        |                         |                         |                         |
| 20                 | 50                 | 250                                               |           |      |      | 4.3                            | 1898                     | 212                      | 15                       | 37 <sup>†</sup>        | 12                      | 285                     | 3900                    |
| 11.5               | 36                 | 420                                               |           |      |      | 4.5                            | 632                      | 90                       | 7                        | 12.8 <sup>†</sup>      | 4.3                     | 170                     | 1300                    |
| 13                 | 41                 | 94                                                | 100*      |      |      | 4.6                            | 820                      | 70                       | 22                       | 15                     | 4.4                     | 32.5                    | 230                     |
| 70                 | 47                 | 4.5                                               |           |      |      | 3.4                            | 6775                     | 557                      | 32                       | 90                     | 13.5                    | 50                      | 380                     |
| 41                 | 36.5               | 10                                                | 12.5*     |      |      | 3.4                            | 2785                     | 238                      | 12                       | 37 <sup>†</sup>        | 5                       | 35                      | 210                     |
| 22                 | 27                 | 24                                                | 33        |      |      | 2.7                            | 1190                     | 95                       | 7                        | 7                      | 2.5                     | 30                      | 145                     |
| 17                 | 23.5               | 34                                                | 43        |      |      | 2.7                            | 870                      | 68                       | 3.5                      | 5.5                    | 2                       | 20                      | 88                      |
| 27                 | 42                 | 24                                                | 30*       |      |      | 4                              | 1770                     | 165                      | 55                       | 28 <sup>†</sup>        | 10                      | 20                      | 82                      |
| 56                 | 37.5               | 6                                                 | 8*        |      |      | 3.3                            | 3142                     | 435                      | 43                       | 44.5 <sup>†</sup>      | 8                       | 29                      | 161                     |
| 43                 | 35.5               | 9.2                                               | 12.5*     |      |      | 3.4                            | 1871                     | 265                      | 14                       | 26.5                   | 4                       | 32                      | 162                     |
| <b>72.5</b>        | <b>30</b>          | <b>3.3</b>                                        |           |      |      | <b>3.4</b>                     | <b>2870</b>              | <b>940</b>               | <b>38</b>                | <b>42.5</b>            | <b>10</b>               | <b>26</b>               | <b>87</b>               |
| 112                | 41                 | 1.9                                               | 2.5       |      |      | 2.3                            | 8320                     | 1438                     | 85                       | 45                     | 7                       | 26                      | 83                      |
| 90                 | 32                 | 2.3                                               | 4         |      |      | 2.4                            | 5225                     | 895                      | 55                       | 28                     | 4.5                     | 20                      | 60                      |
| 80                 | 29.5               | 2.8                                               | 3.9       |      |      | 2.5                            | 3830                     | 630                      | 45                       | 20                     | 3                       | 18.5                    | 50                      |
| -34                | 33                 | 16                                                | 20        |      |      | -2.5                           | 2550                     | 280                      | 190                      | 18.6                   | 8.6                     | 25                      | 75                      |
| -24                | 43                 | 40                                                | 54        |      |      | -2.4                           | 2461                     | 178                      | 120                      | 19.7                   | 8.9                     | 26.68                   | 167.12                  |
|                    |                    |                                                   |           |      |      |                                |                          |                          |                          |                        |                         |                         |                         |
| 40                 | 357                | 85                                                |           |      |      | 4.1                            | 2718                     | 405                      | 31                       | 60 <sup>†</sup>        | 21                      | 275                     | 8200                    |
| 60                 | 658                | 56                                                |           |      |      | 4.1                            | 4438                     | 593                      | 38                       | 88                     | 28                      | 320                     | 14.5                    |
|                    |                    |                                                   |           |      |      |                                |                          |                          |                          |                        |                         |                         |                         |
| 4.2                | 78                 | 1600                                              |           |      |      | 4.5                            | 331                      | 42                       | 3                        | 6.9 <sup>†</sup>       | 2.3*                    | 160                     | 930                     |
| 11.5               | 150                | 420                                               |           |      |      | 4.5                            | 632                      | 90                       | 7                        | 12.8 <sup>†</sup>      | 4.3*                    | 170                     | 1300                    |
| 8                  | 78                 | 560                                               |           |      |      | 4.3                            | 306                      | 51                       | 3.2                      | 6 <sup>†</sup>         | 1.5*                    | 77                      | 290                     |
| 11                 | 45                 | 140                                               | 152       |      |      | 2.8                            | 445                      | 29                       | 16                       | 5.1                    | 2.4                     | 21                      | 97                      |
| 43                 | 100                | 24                                                | 30*       |      |      | 4                              | 1770                     | 165                      | 55                       | 28 <sup>†</sup>        | 10                      | 20                      | 82                      |
| 14                 | 30                 | 68                                                | 92        |      |      | 2.9                            | 390                      | 30                       | 3                        | 2.8                    | 1.2                     | 15                      | 53                      |
| 12                 | 20                 | 60                                                | 85        |      |      | 3                              | 450                      | 61                       | 27                       | 3.8                    | 1.9                     | 27                      | 30                      |
| 46                 | 59.5               | 9.5                                               |           |      |      | 2.4                            | 1100                     | 300                      | 28                       | 7                      | 3.5                     | 19                      | 65                      |
| 50                 | 50                 | 8                                                 | 11        |      |      | 3                              | 1500                     | 215                      | 135                      | 27.2                   | 6.4                     | 29                      | 26                      |
| -40                | 62.5               | 15*                                               | 20*       |      |      | -3                             | 2550                     | 280                      | 190                      | 18.6                   | 8.6                     | 38                      | 47                      |
| 60                 | 52                 | 6.1                                               | 9.4       |      |      | 2.5                            | 1480                     | 245                      | 13                       | 8.5                    | 3                       | 11                      | 21                      |
| -70                | 62.5               | 8.5                                               |           |      |      | -3.5                           | 2760                     | 550                      | 375                      | 45*                    | 12                      | 15                      | 30                      |
| 70                 | 93                 | 3.1                                               | 4.8       |      |      | 3.1                            | 2610                     | 915                      | 115                      | 14                     | 6.3                     | 16.5                    | 34.2                    |
| <b>-70</b>         | <b>78</b>          | <b>8</b>                                          | <b>13</b> |      |      | <b>-2.3</b>                    | <b>2830</b>              | <b>430</b>               | <b>365</b>               | <b>35</b>              | <b>12</b>               | <b>32</b>               |                         |
| -26                | 60                 | 40*                                               | 55*       |      |      | -2.4                           | 2977                     | 241                      | 153                      | 22.2                   | 10                      | 40                      | 59                      |

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
<sup>†</sup> Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Medium Voltage MOSFETs (Continued)

| Part Number   | Package | Configuration | Polarity | ESD Diode | Schottky Diode | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) |
|---------------|---------|---------------|----------|-----------|----------------|---------------------|----------------------|
| <b>TO-252</b> |         |               |          |           |                |                     |                      |
| AOD3N40       | TO-252  | Single        | N        | No        | No             | 400                 | 30                   |
| AOD5N40       | TO-252  | Single        | N        | No        | No             | 400                 | 30                   |
| AOD9N40       | TO-252  | Single        | N        | No        | No             | 400                 | 30                   |
| AOD468        | TO-252  | Single        | N        | No        | No             | 300                 | 30                   |
| AOD458        | TO-252  | Single        | N        | No        | No             | 250                 | 30                   |
| AOD8N25       | TO-252  | Single        | N        | No        | No             | 250                 | 30                   |
| AOD450        | TO-252  | Single        | N        | No        | No             | 200                 | 30                   |
| AOD2210       | TO-252  | Single        | N        | No        | No             | 200                 | 20                   |
| AOD4504       | TO-252  | Single        | N        | No        | No             | 200                 | 20                   |
| AOD2544       | TO-252  | Single        | N        | No        | No             | 150                 | 20                   |
| AOD4454       | TO-252  | Single        | N        | No        | No             | 150                 | 20                   |
| AOD464        | TO-252  | Single        | N        | No        | No             | 105                 | 25                   |
| AOD478        | TO-252  | Single        | N        | No        | No             | 100                 | 20                   |
| AOD482        | TO-252  | Single        | N        | No        | No             | 100                 | 20                   |
| AOD2910       | TO-252  | Single        | N        | No        | No             | 100                 | 20                   |
| AOD2910E      | TO-252  | Single        | N        | Yes       | No             | 100                 | 20                   |
| AOD2916       | TO-252  | Single        | N        | No        | No             | 100                 | 20                   |
| AOD2922       | TO-252  | Single        | N        | No        | No             | 100                 | 20                   |
| AOD4126       | TO-252  | Single        | N        | No        | No             | 100                 | 25                   |
| AOD4286       | TO-252  | Single        | N        | No        | No             | 100                 | 20                   |
| AOD66923      | TO-252  | Single        | N        | No        | No             | 100                 | 20                   |
| AOD2810       | TO-252  | Single        | N        | No        | No             | 80                  | 20                   |
| AOD2816       | TO-252  | Single        | N        | No        | No             | 80                  | 20                   |
| AOD442G       | TO-252  | Single        | N        | No        | No             | 60                  | 20                   |
| AOD444        | TO-252  | Single        | N        | No        | No             | 60                  | 20                   |
| AOD2610E      | TO-252  | Single        | N        | Yes       | No             | 60                  | 20                   |
| AOD2144       | TO-252  | Single        | N        | No        | No             | 40                  | 20                   |
| AOD2146       | TO-252  | Single        | N        | No        | No             | 40                  | 20                   |
| AOD66406      | TO-252  | Single        | N        | No        | No             | 40                  | 20                   |
| AOD413A       | TO-252  | Single        | P        | No        | No             | -40                 | 20                   |
| AOD4185       | TO-252  | Single        | P        | No        | No             | -40                 | 20                   |
| AOD4189       | TO-252  | Single        | P        | No        | No             | -40                 | 20                   |
| AOD407        | TO-252  | Single        | P        | No        | No             | -60                 | 20                   |
| AOD409        | TO-252  | Single        | P        | No        | No             | -60                 | 20                   |
| AOD409G       | TO-252  | Single        | P        | No        | No             | -60                 | 20                   |
| AOD603A       | TO-252  | Complementary | N        | No        | No             | 60                  | 20                   |
| AOD603A       | TO-252  | Complementary | P        | No        | No             | -60                 | 20                   |
| <b>TO-262</b> |         |               |          |           |                |                     |                      |
| AOW2502       | TO-262  | Single        | N        | No        | No             | 150                 | 20                   |
| AOW292        | TO-262  | Single        | N        | No        | No             | 100                 | 20                   |
| AOW296        | TO-262  | Single        | N        | No        | No             | 100                 | 20                   |
| AOW284        | TO-262  | Single        | N        | No        | No             | 80                  | 20                   |
| AOW482        | TO-262  | Single        | N        | No        | No             | 80                  | 25                   |
| AOW66616      | TO-262  | Single        | N        | No        | No             | 60                  | 20                   |
| AOW66412      | TO-262  | Single        | N        | No        | No             | 40                  | 20                   |

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

| I <sub>D</sub> (A) | P <sub>D</sub> (W) | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |      |      |      | V <sub>GS(th)</sub><br>(max V) | C <sub>iss</sub><br>(pF) | C <sub>oss</sub><br>(pF) | C <sub>rss</sub><br>(pF) | Q <sub>g</sub><br>(nC) | Q <sub>gd</sub><br>(nC) | T <sub>rr</sub><br>(ns) | Q <sub>rr</sub><br>(nC) |
|--------------------|--------------------|---------------------------------------------------|------|------|------|--------------------------------|--------------------------|--------------------------|--------------------------|------------------------|-------------------------|-------------------------|-------------------------|
|                    |                    | 10V                                               | 4.5V | 2.5V | 1.8V |                                |                          |                          |                          |                        |                         |                         |                         |
| 2.6                | 50                 | 3100                                              |      |      |      | 4.5                            | 186                      | 26                       | 2.1                      | 4.2 <sup>†</sup>       | 1                       | 140                     | 640                     |
| 4.2                | 78                 | 1600                                              |      |      |      | 4.5                            | 331                      | 42                       | 3                        | 6.9 <sup>†</sup>       | 2.3                     | 160                     | 930                     |
| 8                  | 125                | 800                                               |      |      |      | 4.5                            | 962                      | 73                       | 8                        | 19.5 <sup>†</sup>      | 7.1                     | 195                     | 1900                    |
| 11.5               | 150                | 420                                               |      |      |      | 4.5                            | 632                      | 90                       | 7                        | 12.8 <sup>†</sup>      | 4.3                     | 170                     | 1300                    |
| 14                 | 150                | 280                                               |      |      |      | 4.5                            | 637                      | 104                      | 7.1                      | 12                     | 4.6                     | 150                     | 1240                    |
| 8                  | 78                 | 560                                               |      |      |      | 4.3                            | 306                      | 51                       | 3.2                      | 6 <sup>†</sup>         | 1.5                     | 77                      | 290                     |
| 3.8                | 25                 | 700                                               |      |      |      | 6                              | 215                      | 32                       | 7.2                      | 3.82 <sup>†</sup>      | 1.47                    | 59                      | 142                     |
| 18                 | 100                | 105                                               | 120* |      |      | 2.5                            | 2065                     | 74                       | 3.8                      | 12                     | 3                       | 60                      | 800                     |
| 6                  | 42.5               | 400                                               |      |      |      | 3.7                            | 328                      | 20.5                     | 8                        | 44                     | 30                      | 35                      | 150                     |
| 23                 | 75                 | 54                                                | 66   |      |      | 2.7                            | 675                      | 78                       | 4                        | 5.5                    | 2.5                     | 37                      | 210                     |
| 20                 | 100                | 94                                                | 110* |      |      | 4.6                            | 820                      | 70                       | 22                       | 15 <sup>†</sup>        | 4.4                     | 32.5                    | 230                     |
| 40                 | 100                | 28                                                | 31*  |      |      | 4                              | 2038                     | 204                      | 85                       | 38.5 <sup>†</sup>      | 10                      | 59.6                    | 161                     |
| 11                 | 45                 | 140                                               | 152  |      |      | 2.8                            | 445                      | 29                       | 16                       | 5.1                    | 2.4                     | 21                      | 97                      |
| 32                 | 100                | 37                                                | 42   |      |      | 2.7                            | 1630                     | 100                      | 50                       | 18                     | 9                       | 32                      | 200                     |
| 31                 | 53.5               | 24                                                | 33   |      |      | 2.7                            | 1190                     | 95                       | 7                        | 7                      | 2.5                     | 30                      | 145                     |
| 37                 | 71.5               | 23                                                | 33   |      |      | 2.7                            | 1200                     | 93                       | 6.3                      | 8                      | 2.5                     | 25                      | 120                     |
| 25                 | 50                 | 34                                                | 43.5 |      |      | 2.7                            | 870                      | 68                       | 3.5                      | 5.5                    | 2                       | 20                      | 88                      |
| 7                  | 17                 | 140                                               | 176  |      |      | 2.7                            | 250                      | 19                       | 2.5                      | 1.8                    | 0.8                     | 19                      | 52                      |
| 43                 | 100                | 24                                                | 30*  |      |      | 4                              | 1770                     | 165                      | 55                       | 28 <sup>†</sup>        | 10                      | 20                      | 82                      |
| 14                 | 30                 | 68                                                | 92   |      |      | 2.9                            | 390                      | 30                       | 3                        | 2.8                    | 1.2                     | 15                      | 53                      |
| 58                 | 73                 | 11                                                | 15   |      |      | 2.6                            | 1725                     | 360                      | 7.5                      | 12.5                   | 3.5                     | 41                      | 156                     |
| 46                 | 100                | 8.5                                               | 12*  |      |      | 3.4                            | 1871                     | 265                      | 14                       | 26.5 <sup>†</sup>      | 4                       | 32                      | 162                     |
| 35                 | 53.5               | 15                                                | 29*  |      |      | 3.5                            | 1109                     | 154                      | 9                        | 5                      | 3.2                     | 30                      | 122                     |
| 40                 | 60                 | 18                                                | 23   |      |      | 2.7                            | 1920                     | 155                      | 155                      | 24                     | 14.5                    | 30                      | 105                     |
| 12                 | 20                 | 60                                                | 85   |      |      | 3                              | 450                      | 61                       | 27                       | 3.8                    | 1.9                     | 27                      | 30                      |
| 46                 | 59.5               | 9.5                                               | 13.3 |      |      | 2.4                            | 1100                     | 300                      | 28                       | 7                      | 3.5                     | 19                      | 65                      |
| 120                | 156                | 2.3                                               | 4    |      |      | 2.4                            | 5225                     | 895                      | 55                       | 28                     | 4.5                     | 20                      | 60                      |
| 54                 | 100                | 3.1                                               | 4.2  |      |      | 2.5                            | 3830                     | 630                      | 45                       | 20                     | 3                       | 18.5                    | 50                      |
| 60                 | 52                 | 6.1                                               | 9.4  |      |      | 2.5                            | 1480                     | 245                      | 13                       | 8.5                    | 3                       | 11                      | 21                      |
| -12                | 50                 | 44                                                | 66   |      |      | -3                             | 900                      | 97                       | 68                       | 7.2                    | 3.5                     | 21.2                    | 13.8                    |
| -40                | 62.5               | 15                                                | 20   |      |      | -3                             | 2550                     | 280                      | 190                      | 18.6                   | 8.5                     | 38                      | 47                      |
| -40                | 62.5               | 22                                                | 29   |      |      | -3                             | 1870                     | 185                      | 155                      | 7.9                    | 6.2                     | 32                      | 30                      |
| -12                | 50                 | 115                                               | 150  |      |      | -3                             | 987                      | 114                      | 46                       | 7.4                    | 3.5                     | 27.5                    | 30                      |
| -26                | 60                 | 40                                                | 55   |      |      | -2.4                           | 2977                     | 241                      | 153                      | 22.2                   | 10                      | 40                      | 59                      |
| -26                | 60                 | 40                                                | 55   |      |      | -2.5                           | 2350                     | 160                      | 115                      | 22                     | 10                      | 23                      | 107                     |
| 12                 | 27                 | 60                                                | 85   |      |      | 3                              | 450                      | 61                       | 27                       | 3.8                    | 1.9                     | 27                      | 30                      |
| -12                | 42.5               | 115                                               | 150  |      |      | -3                             | 960                      | 86                       | 38                       | 7.4                    | 3.5                     | 27.5                    | 30                      |
| 106                | 277                | 10.7                                              |      |      |      | 5.1                            | 3010                     | 345                      | 14                       | 43 <sup>†</sup>        | 10                      | 75                      | 880                     |
| 105                | 300                | 4.1                                               | 4.9* |      |      | 3.4                            | 6775                     | 557                      | 32                       | 90 <sup>†</sup>        | 13.5                    | 50                      | 380                     |
| 70                 | 104                | 9.7*                                              |      |      |      | 3.4                            | 2785                     | 238                      | 12                       | 37                     | 5                       | 35                      | 210                     |
| 105                | 250                | 4.3                                               | 5.5* |      |      | 3.3                            | 5154                     | 673                      | 48                       | 71 <sup>†</sup>        | 11.5                    | 38                      | 230                     |
| 105                | 333                | 7.2                                               | 9*   |      |      | 3.7                            | 4054                     | 458                      | 160                      | 66.8 <sup>†</sup>      | 20.2                    | 26                      | 108                     |
| 140                | 125                | 3.2                                               |      |      |      | 3.4                            | 2870                     | 940                      | 38                       | 42.5                   | 10                      | 26                      | 87                      |
| 120                | 260                | 1.9                                               | 2.5  |      |      | 2.3                            | 8320                     | 1438                     | 85                       | 45                     | 7                       | 26                      | 83                      |

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.

<sup>†</sup> Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Medium Voltage MOSFETs (Continued)

| Part Number    | Package | Configuration | Polarity | ESD Diode | Schottky Diode | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) |
|----------------|---------|---------------|----------|-----------|----------------|---------------------|----------------------|
| <b>TO-262F</b> |         |               |          |           |                |                     |                      |
| AOWF412        | TO-262F | Single        | N        | No        | No             | 100                 | 25                   |
| <b>TO-263</b>  |         |               |          |           |                |                     |                      |
| AOB2500L       | TO-263  | Single        | N        | No        | No             | 150                 | 20                   |
| AOB2502L       | TO-263  | Single        | N        | No        | No             | 150                 | 20                   |
| AOB414         | TO-263  | Single        | N        | No        | No             | 100                 | 25                   |
| AOB2904        | TO-263  | Single        | N        | No        | No             | 100                 | 20                   |
| AOB2910L       | TO-263  | Single        | N        | No        | No             | 100                 | 20                   |
| AOB292L        | TO-263  | Single        | N        | No        | No             | 100                 | 20                   |
| AOB296L        | TO-263  | Single        | N        | No        | No             | 100                 | 20                   |
| AOB280L        | TO-263  | Single        | N        | No        | No             | 80                  | 20                   |
| AOB282L        | TO-263  | Single        | N        | No        | No             | 80                  | 20                   |
| AOB284L        | TO-263  | Single        | N        | No        | No             | 80                  | 20                   |
| AOB286L        | TO-263  | Single        | N        | No        | No             | 80                  | 20                   |
| AOB288L        | TO-263  | Single        | N        | No        | No             | 80                  | 20                   |
| AOB270AL       | TO-263  | Single        | N        | No        | No             | 75                  | 20                   |
| AOB470L        | TO-263  | Single        | N        | No        | No             | 75                  | 25                   |
| AOB66616L      | TO-263  | Single        | N        | No        | No             | 60                  | 20                   |
| AOB2140L       | TO-263  | Single        | N        | No        | No             | 40                  | 20                   |
| AOB2144L       | TO-263  | Single        | N        | No        | No             | 40                  | 20                   |
| AOB2146L       | TO-263  | Single        | N        | No        | No             | 40                  | 20                   |
| AOB4184        | TO-263  | Single        | N        | No        | No             | 40                  | 20                   |
| AOB409L        | TO-263  | Single        | P        | No        | No             | -60                 | 20                   |
| AOB411L        | TO-263  | Single        | P        | No        | No             | -60                 | 20                   |

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.  
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

| I <sub>D</sub> (A)<br>25°C | P <sub>D</sub> (W)<br>25°C | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |       |      |      | VGS(th)<br>(max V) | Ciss<br>(pF) | Coss<br>(pF) | Crss<br>(pF) | Qg<br>(nC) | Qgd<br>(nC) | Trr<br>(ns) | Qrr<br>(nC) |
|----------------------------|----------------------------|---------------------------------------------------|-------|------|------|--------------------|--------------|--------------|--------------|------------|-------------|-------------|-------------|
|                            |                            | 10V                                               | 4.5V  | 2.5V | 1.8V |                    |              |              |              |            |             |             |             |
| 30                         | 33                         | 15.8                                              | 19.4* |      |      | 3.8                | 2680         | 260          | 100          | 45         | 15          | 22          | 96          |
| 152                        | 375                        | 6.2                                               | 7.3*  |      |      | 3.5                | 6460         | 586          | 22           | 97†        | 17          | 90          | 1090        |
| 106                        | 277                        | 10.7                                              |       |      |      | 5.1                | 3010         | 347          | 14           | 43†        | 10          | 75          | 880         |
| 51                         | 150                        | 25                                                |       |      |      | 4                  | 1770         | 165          | 55           | 28†        | 10          | 20          | 82          |
| 120                        | 326                        | 4.4                                               |       |      |      | 3.3                | 7085         | 605          | 32           | 93         | 16          | 49          | 460         |
| 30                         | 50                         | 23.5                                              | 32.5  |      |      | 2.7                | 1190         | 95           | 7            | 7          | 2.5         | 30          | 145         |
| 105                        | 300                        | 4.1                                               |       |      |      | 3.4                | 6775         | 557          | 32           | 90         | 13.5        | 50          | 380         |
| 70                         | 107                        | 9.7                                               |       |      |      | 3.4                | 2785         | 238          | 12           | 16.5       | 5           | 35          | 210         |
| 140                        | 333                        | 2.2                                               | 3.1*  |      |      | 3.4                | 11135        | 1315         | 80           | 160†       | 28          | 44          | 348         |
| 105                        | 272.5                      | 3.2                                               | 4.9*  |      |      | 3.5                | 7765         | 960          | 66           | 58         | 21          | 40          | 320         |
| 105                        | 250                        | 4.3                                               | 5.5*  |      |      | 3.3                | 5154         | 673          | 48           | 33.5       | 11.5        | 38          | 230         |
| 70                         | 167                        | 5.7                                               | 7.6*  |      |      | 3.3                | 3142         | 435          | 43           | 44.5†      | 8           | 29          | 161         |
| 46                         | 93.5                       | 8.9                                               | 12.2* |      |      | 3.4                | 1871         | 265          | 14           | 26.5       | 4           | 32          | 162         |
| 140                        | 500                        | 2.4                                               | 3*    |      |      | 3.3                | 10830        | 1520         | 97           | 147†       | 30          | 53          | 438         |
| 100                        | 268                        | 10.2                                              |       |      |      | 4                  | 4700         | 400          | 180          | 114†       | 18          | 53          | 143         |
| 140                        | 125                        | 3.2                                               |       |      |      | 3.4                | 2870         | 940          | 38           | 42.5       | 10          | 26          | 87          |
| 195                        | 272                        | 1.5                                               | 2     |      |      | 2.3                | 9985         | 1635         | 95           | 54         | 11          | 29          | 107         |
| 120                        | 187                        | 2.3                                               | 4     |      |      | 2.4                | 5225         | 895          | 55           | 28         | 4.5         | 20          | 60          |
| 105                        | 119                        | 2.8                                               | 3.9   |      |      | 2.5                | 3830         | 630          | 45           | 20         | 3           | 18.5        | 50          |
| 50                         | 50                         | 10                                                | 13    |      |      | 3                  | 1500         | 215          | 135          | 13.6       | 6.4         | 19          | 59          |
| -31.5                      | 83.3                       | 38                                                | 50    |      |      | -2.4               | 2461         | 178          | 120          | 19.7       | 8.9         | 25.7        | 167         |
| -78                        | 187                        | 16.5                                              | 22    |      |      | -2.5               | 5330         | 483          | 234          | 40         | 18          | 27          | 165         |

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
† Qg measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## $\alpha$ MOS5™ High Voltage SuperJunction MOSFETs

| Part Number                  | Package | Configuration | Polarity | ESD Diode | Schottky Diode | V <sub>DS</sub> (V) | V <sub>GS</sub> (±V) |
|------------------------------|---------|---------------|----------|-----------|----------------|---------------------|----------------------|
| <b>V<sub>DS</sub> = 600V</b> |         |               |          |           |                |                     |                      |
| AOB190A60L                   | TO-263  | Single        | N        | No        | No             | 600                 | 20                   |
| AOT190A60L                   | TO-220  | Single        | N        | No        | No             | 600                 | 20                   |
| AOT380A60L                   | TO-220  | Single        | N        | No        | No             | 600                 | 20                   |
| AOTF190A60L                  | TO-220F | Single        | N        | No        | No             | 600                 | 20                   |
| AOTF380A60L                  | TO-220F | Single        | N        | No        | No             | 600                 | 20                   |
| AOD380A60                    | TO-252  | Single        | N        | No        | No             | 600                 | 20                   |
| AOWF190A60                   | TO-262F | Single        | N        | No        | No             | 600                 | 20                   |
| <b>V<sub>DS</sub> = 700V</b> |         |               |          |           |                |                     |                      |
| AOD1R4A70                    | TO-252  | Single        | N        | No        | No             | 700                 | 20                   |
| AOD950A70                    | TO-252  | Single        | N        | No        | No             | 700                 | 20                   |
| AOI1R4A70                    | TO-251A | Single        | N        | No        | No             | 700                 | 20                   |
| AOI950A70                    | TO-251A | Single        | N        | No        | No             | 700                 | 20                   |

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.  
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

| $I_D$ (A) | $P_D$ (W) | $R_{DS(ON)}$ (mΩ max) at $V_{GS} =$ |      |      |      | $V_{GS(th)}$<br>(max V) | $C_{iss}$<br>(pF) | $C_{oss}$<br>(pF) | $C_{rss}$<br>(pF) | $Q_g$<br>(nC) | $Q_{gd}$<br>(nC) | $T_{rr}$<br>(ns) | $Q_{rr}$<br>(nC) |
|-----------|-----------|-------------------------------------|------|------|------|-------------------------|-------------------|-------------------|-------------------|---------------|------------------|------------------|------------------|
|           |           | 10V                                 | 4.5V | 2.5V | 1.8V |                         |                   |                   |                   |               |                  |                  |                  |
| 20        | 208       | 190                                 |      |      |      | 4.6                     | 1935              | 55                | 1.25              | 34            | 11               | 341              | 6.8              |
| 20        | 208       | 190                                 |      |      |      | 4.6                     | 1935              | 55                | 1.25              | 34            | 11               | 341              | 6.8              |
| 11*       | 131       | 380                                 |      |      |      | 3.2                     | 955               | 29                | 2.4               | 20            | 6.6              | 251              | 3100             |
| 20        | 32        | 190                                 |      |      |      | 4.4                     | 1935              | 55                | 1.25              | 34            | 8.7              | 265              | 3600             |
| 11*       | 27        | 380                                 |      |      |      | 3.2                     | 955               | 29                | 2.4               | 20            | 6.6              | 251              | 3100             |
| 11        | 125       | 380                                 |      |      |      | 3.2                     | 955               | 29                | 2.4               | 20            | 6.6              | 251              | 3100             |
| 20*       | 27        | 190                                 |      |      |      |                         | 1935              | 55                | 1.25              | 34            | 11               | 341              | 6800             |
|           |           |                                     |      |      |      |                         |                   |                   |                   |               |                  |                  |                  |
| 3.8       | 32        | 1400                                |      |      |      | 4.1                     | 354               | 12                | 1.3               | 8             | 2                | 176              | 1.4              |
| 5         | 56.5      | 950                                 |      |      |      | 4.1                     | 461               | 15                | 1.4               | 10            | 2.8              | 200              | 2                |
| 3.8       | 48        | 1400                                |      |      |      | 4.1                     | 354               | 12                | 1.3               | 8             | 2                | 176              | 1.4              |
| 5         | 56.5      | 950                                 |      |      |      | 4.1                     | 461               | 15                | 1.4               | 10            | 2.8              | 200              | 2                |

\*  $R_{DS(ON)}$  measured at  $V_{GS}$  other than 10V, 4.5V or 1.8V.  
†  $Q_g$  measured with  $V_{GS} = 10V$ . In all other cases  $V_{GS} = 4.5V$ .

## $\alpha$ MOS1 High Voltage MOSFETs<sup>(1)</sup>

| Part Number    | Package   | Configuration | Polarity | ESD Diode | Schottky Diode | V <sub>DS</sub> (V) | V <sub>GS</sub> ( $\pm$ V) |
|----------------|-----------|---------------|----------|-----------|----------------|---------------------|----------------------------|
| <b>SOT-23A</b> |           |               |          |           |                |                     |                            |
| AO3160E        | SOT-23A-3 | Single        | N        | Yes       | No             | 600                 | 20                         |
| <b>TO-220</b>  |           |               |          |           |                |                     |                            |
| AOT15S60L      | TO-220    | Single        | N        | No        | No             | 600                 | 30                         |
| AOT4S60        | TO-220    | Single        | N        | No        | No             | 600                 | 30                         |
| AOT7S60        | TO-220    | Single        | N        | No        | No             | 600                 | 30                         |
| AOT11S65       | TO-220    | Single        | N        | No        | No             | 650                 | 30                         |
| AOT25S65       | TO-220    | Single        | N        | No        | No             | 650                 | 30                         |
| <b>TO-220F</b> |           |               |          |           |                |                     |                            |
| AOTF29S50      | TO-220F   | Single        | N        | No        | No             | 500                 | 30                         |
| AOTF11N60/L    | TO-220F   | Single        | N        | No        | No             | 600                 | 30                         |
| AOTF15S60/L    | TO-220F   | Single        | N        | No        | No             | 600                 | 30                         |
| AOTF20S60/L    | TO-220F   | Single        | N        | No        | No             | 600                 | 30                         |
| AOTF27S60/L    | TO-220F   | Single        | N        | No        | No             | 600                 | 30                         |
| AOTF42S60      | TO-220F   | Single        | N        | No        | No             | 600                 | 30                         |
| AOTF42S60L     | TO-220F   | Single        | N        | No        | No             | 600                 | 30                         |
| AOTF4N60/L     | TO-220F   | Single        | N        | No        | No             | 600                 | 30                         |
| AOTF4S60       | TO-220F   | Single        | N        | No        | No             | 600                 | 30                         |
| AOTF7S60       | TO-220F   | Single        | N        | No        | No             | 600                 | 30                         |
| AOTF8N80/L     | TO-220F   | Single        | N        | No        | No             | 800                 | 30                         |
| AOTF11S65      | TO-220F   | Single        | N        | No        | No             | 650                 | 30                         |
| AOTF15S65/L    | TO-220F   | Single        | N        | No        | No             | 650                 | 30                         |
| AOTF25S65      | TO-220F   | Single        | N        | No        | No             | 650                 | 30                         |
| AOTF7S65/L     | TO-220F   | Single        | N        | No        | No             | 650                 | 30                         |
| <b>TO-247</b>  |           |               |          |           |                |                     |                            |
| AOK29S50       | TO-247    | Single        | N        | No        | No             | 500                 | 30                         |
| AOK53S60       | TO-247    | Single        | N        | No        | No             | 600                 | 30                         |
| AOK20N60L      | TO-247    | Single        | N        | No        | No             | 600                 | 30                         |
| AOK20S60L      | TO-247    | Single        | N        | No        | No             | 600                 | 30                         |
| AOK27S60L      | TO-247    | Single        | N        | No        | No             | 600                 | 30                         |
| AOK42S60L      | TO-247    | Single        | N        | No        | No             | 600                 | 30                         |
| <b>TO-251</b>  |           |               |          |           |                |                     |                            |
| AOU4S60        | TO-251    | Single        | N        | No        | No             | 600                 | 30                         |
| <b>TO-251A</b> |           |               |          |           |                |                     |                            |
| AOI11S60       | TO-251A   | Single        | N        | No        | No             | 600                 | 30                         |
| AOI4S60        | TO-251A   | Single        | N        | No        | No             | 600                 | 30                         |
| AOI7S65        | TO-251A   | Single        | N        | No        | No             | 650                 | 30                         |
| <b>TO-252</b>  |           |               |          |           |                |                     |                            |
| AOD11S60       | TO-252    | Single        | N        | No        | No             | 600                 | 30                         |
| AOD4S60        | TO-252    | Single        | N        | No        | No             | 600                 | 30                         |
| AOD7S60        | TO-252    | Single        | N        | No        | No             | 600                 | 30                         |
| AOD7S65        | TO-252    | Single        | N        | No        | No             | 650                 | 30                         |

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.  
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

| I <sub>D</sub> (A) | P <sub>D</sub> (W) | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |        |      |      | V <sub>GS(th)</sub><br>(max V) | C <sub>iss</sub><br>(pF) | C <sub>oss</sub><br>(pF) | C <sub>rss</sub><br>(pF) | Q <sub>g</sub><br>(nC) | Q <sub>gd</sub><br>(nC) | T <sub>rr</sub><br>(ns) | Q <sub>rr</sub><br>(nC) |
|--------------------|--------------------|---------------------------------------------------|--------|------|------|--------------------------------|--------------------------|--------------------------|--------------------------|------------------------|-------------------------|-------------------------|-------------------------|
|                    |                    | 10V                                               | 4.5V   | 2.5V | 1.8V |                                |                          |                          |                          |                        |                         |                         |                         |
| 0.04               | 1.39               | 500000                                            | 600000 |      |      | 3.2                            | 9.5                      | 1.7                      | 0.6                      | 0.9                    | 0.49                    | 105                     | 9.5                     |
| 15                 | 208                | 290                                               |        |      |      | 3.8                            | 717                      | 58                       | 1.3                      | 15.6 <sup>†</sup>      | 6                       | 282                     | 4500                    |
| 4                  | 83                 | 900                                               |        |      |      | 4.1                            | 263                      | 21                       | 0.75                     | 6 <sup>†</sup>         | 1.8                     | 177                     | 1500                    |
| 7                  | 104                | 600                                               |        |      |      | 3.9                            | 372                      | 28                       | 1.2                      | 8.2 <sup>†</sup>       | 2.8                     | 198                     | 2400                    |
| 11                 | 198                | 399                                               |        |      |      | 4                              | 646                      | 42                       | 1.1                      | 13.2 <sup>†</sup>      | 4.3                     | 278                     | 4200                    |
| 25                 | 357                | 190                                               |        |      |      | 4                              | 1278                     | 87                       | 1.4                      | 26.4 <sup>†</sup>      | 9.5                     | 408                     | 8270                    |
| 29                 | 50                 | 150                                               |        |      |      | 3.9                            | 1312                     | 88                       | 2.5                      | 26.6 <sup>†</sup>      | 9.2                     | 387                     | 7300                    |
| 11                 | 50                 | 650                                               |        |      |      | 4.5                            | 1656                     | 146                      | 11.2                     | 30.6 <sup>†</sup>      | 9.6                     | 500                     | 5900                    |
| 15                 | 27.8               | 290                                               |        |      |      | 3.8                            | 717                      | 58                       | 1.3                      | 15.6 <sup>†</sup>      | 6                       | 282                     | 4500                    |
| 20                 | 50                 | 1990                                              |        |      |      | 2.8                            | 1038                     | 68                       | 2.1                      | 19.8                   | 7.6                     | 350                     | 5700                    |
| 27                 | 50                 | 160                                               |        |      |      | 4                              | 1294                     | 80                       | 2.3                      | 26                     | 8.8                     | 440                     | 7500                    |
| 39                 | 50                 | 99                                                |        |      |      | 3.8                            | 2154                     | 135                      | 2.7                      | 40 <sup>†</sup>        | 11.9                    | 473                     | 10500                   |
| 39                 | 37.9               | 99                                                |        |      |      | 3.8                            | 2154                     | 135                      | 2.7                      | 40 <sup>†</sup>        | 11.9                    | 473                     | 10500                   |
| 4                  | 35                 | 2200                                              |        |      |      | 4.5                            | 511                      | 51                       | 4.4                      | 15                     | 7.6                     | 212                     | 1600                    |
| 4                  | 83                 | 900                                               |        |      |      | 4.1                            | 263                      | 21                       | 0.75                     | 6 <sup>†</sup>         | 1.8                     | 177                     | 1500                    |
| 7                  | 34                 | 600                                               |        |      |      | 3.9                            | 372                      | 28                       | 1.2                      | 8.2 <sup>†</sup>       | 2.8                     | 198                     | 2400                    |
| 7.4                | 50                 | 1630                                              |        |      |      | 4.5                            | 1375                     | 101                      | 11                       | 26                     | 9.1                     | 484                     | 6000                    |
| 11                 | 39                 | 399                                               |        |      |      | 4                              | 646                      | 42                       | 1.1                      | 13.2 <sup>†</sup>      | 4.3                     | 278                     | 4200                    |
| 15                 | 50                 | 290                                               |        |      |      | 4                              | 841                      | 58                       | 1.1                      | 17.2 <sup>†</sup>      | 5.3                     | 320                     | 5500                    |
| 25                 | 50                 | 190                                               |        |      |      | 4                              | 1278                     | 87                       | 1.4                      | 26.4 <sup>†</sup>      | 9.5                     | 408                     | 8270                    |
| 7                  | 25                 | 650                                               |        |      |      | 4                              | 434                      | 30                       | 17.5                     | 9.2 <sup>†</sup>       | 2.7                     | 224                     | 2800                    |
| 29                 | 357                | 150                                               |        |      |      | 3.9                            | 1312                     | 88                       | 2.5                      | 26.6 <sup>†</sup>      | 9.2                     | 387                     | 7300                    |
| 53                 | 520                | 70                                                |        |      |      | 3.8                            | 3034                     | 222                      | 3                        | 59 <sup>†</sup>        | 19                      | 664                     | 14000                   |
| 20                 | 417                | 370                                               |        |      |      | 4.5                            | 3061                     | 273                      | 22.8                     | 61                     | 24                      | 480                     | 10.5                    |
| 20                 | 266                | 199                                               |        |      |      | 4.1                            | 1038                     | 68                       | 2.1                      | 19.8                   | 7.6                     | 380                     | 5.7                     |
| 27                 | 357                | 160                                               |        |      |      | 4                              | 1294                     | 80                       | 2.3                      | 26                     | 6.2                     | 440                     | 7.5                     |
| 39                 | 417                | 99                                                |        |      |      | 3.8                            | 2154                     | 135                      | 2.7                      | 40                     | 11.9                    | 473                     | 10.5                    |
| 4                  | 56.8               | 900                                               |        |      |      | 4.1                            | 263                      | 21                       | 0.75                     | 6 <sup>†</sup>         | 1.8                     | 177                     | 1500                    |
| 11                 | 208                | 399                                               |        |      |      | 4.1                            | 545                      | 37.3                     | 1.42                     | 11 <sup>†</sup>        | 3.8                     | 250                     | 3300                    |
| 4                  | 56.8               | 900                                               |        |      |      | 4.1                            | 263                      | 21                       | 0.75                     | 6 <sup>†</sup>         | 1.8                     | 177                     | 1500                    |
| 7                  | 89                 | 650                                               |        |      |      | 4                              | 434                      | 30                       | 17.5                     | 9.2 <sup>†</sup>       | 2.7                     | 224                     | 2800                    |
| 11                 | 208                | 399                                               |        |      |      | 4.1                            | 545                      | 37.3                     | 1.42                     | 11 <sup>†</sup>        | 3.8                     | 250                     | 3300                    |
| 4                  | 56.8               | 900                                               |        |      |      | 4.1                            | 263                      | 21                       | 0.75                     | 6 <sup>†</sup>         | 1.8                     | 177                     | 1500                    |
| 7                  | 83                 | 600                                               |        |      |      | 3.9                            | 372                      | 28                       | 1.2                      | 8.2 <sup>†</sup>       | 2.8                     | 198                     | 2400                    |
| 7                  | 89                 | 650                                               |        |      |      | 4                              | 434                      | 30                       | 17.5                     | 9.2 <sup>†</sup>       | 2.7                     | 224                     | 2800                    |

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
<sup>†</sup> Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## $\alpha$ MOS1 High Voltage MOSFETs<sup>(1)</sup> (Continued)

| Part Number    | Package | Configuration | Polarity | ESD Diode | Schottky Diode | V <sub>DS</sub> (V) | V <sub>GS</sub> ( $\pm$ V) |
|----------------|---------|---------------|----------|-----------|----------------|---------------------|----------------------------|
| <b>TO-262</b>  |         |               |          |           |                |                     |                            |
| AOW29S50       | TO-262  | Single        | N        | No        | No             | 500                 | 30                         |
| AOW11S60       | TO-262  | Single        | N        | No        | No             | 600                 | 30                         |
| AOW15S60       | TO-262  | Single        | N        | No        | No             | 600                 | 30                         |
| AOW20S60       | TO-262  | Single        | N        | No        | No             | 600                 | 30                         |
| AOW4S60        | TO-262  | Single        | N        | No        | No             | 600                 | 30                         |
| AOW7S60        | TO-262  | Single        | N        | No        | No             | 600                 | 30                         |
| AOW11S65       | TO-262  | Single        | N        | No        | No             | 650                 | 30                         |
| AOW15S65       | TO-262  | Single        | N        | No        | No             | 650                 | 30                         |
| AOW25S65       | TO-262  | Single        | N        | No        | No             | 650                 | 30                         |
| AOW7S65        | TO-262  | Single        | N        | No        | No             | 650                 | 30                         |
| <b>TO-262F</b> |         |               |          |           |                |                     |                            |
| AOWF11S60      | TO-262F | Single        | N        | No        | No             | 600                 | 30                         |
| AOWF15S60      | TO-262F | Single        | N        | No        | No             | 600                 | 30                         |
| AOWF20S60      | TO-262F | Single        | N        | No        | No             | 600                 | 30                         |
| AOWF4S60       | TO-262F | Single        | N        | No        | No             | 600                 | 30                         |
| AOWF7S60       | TO-262F | Single        | N        | No        | No             | 600                 | 30                         |
| AOWF11S65      | TO-262F | Single        | N        | No        | No             | 650                 | 30                         |
| AOWF15S65      | TO-262F | Single        | N        | No        | No             | 650                 | 30                         |
| AOWF25S65      | TO-262F | Single        | N        | No        | No             | 650                 | 30                         |
| AOWF7S65       | TO-262F | Single        | N        | No        | No             | 650                 | 30                         |
| <b>TO-263</b>  |         |               |          |           |                |                     |                            |
| AOB27S60L      | TO-263  | Single        | N        | No        | No             | 600                 | 30                         |
| AOB42S60L      | TO-263  | Single        | N        | No        | No             | 600                 | 30                         |
| AOB4S60        | TO-263  | Single        | N        | No        | No             | 600                 | 30                         |
| AOB7S60        | TO-263  | Single        | N        | No        | No             | 600                 | 30                         |
| AOB11S65       | TO-263  | Single        | N        | No        | No             | 650                 | 30                         |
| AOB15S65       | TO-263  | Single        | N        | No        | No             | 650                 | 30                         |
| AOB25S65       | TO-263  | Single        | N        | No        | No             | 650                 | 30                         |
| AOB7S65        | TO-263  | Single        | N        | No        | No             | 650                 | 30                         |
| <b>DFN 8x8</b> |         |               |          |           |                |                     |                            |
| AOV11S60       | DFN8x8  | Single        | N        | No        | No             | 600                 | 30                         |
| AOV15S60       | DFN8x8  | Single        | N        | No        | No             | 600                 | 30                         |
| AOV20S60       | DFN8x8  | Single        | N        | No        | No             | 600                 | 30                         |

1. Not recommended for new designs. Please contact your local sales office for a replacement part, if any.  
2. On-resistance Static Source-Source, otherwise Static Drain-Source.

| I <sub>D</sub> (A) | P <sub>D</sub> (W) | R <sub>DS(ON)</sub> (mΩ max) at V <sub>GS</sub> = |      |      |      | V <sub>GS(th)</sub><br>(max V) | C <sub>iss</sub><br>(pF) | C <sub>oss</sub><br>(pF) | C <sub>rss</sub><br>(pF) | Q <sub>g</sub><br>(nC) | Q <sub>gd</sub><br>(nC) | T <sub>rr</sub><br>(ns) | Q <sub>rr</sub><br>(nC) |
|--------------------|--------------------|---------------------------------------------------|------|------|------|--------------------------------|--------------------------|--------------------------|--------------------------|------------------------|-------------------------|-------------------------|-------------------------|
|                    |                    | 10V                                               | 4.5V | 2.5V | 1.8V |                                |                          |                          |                          |                        |                         |                         |                         |
| 29                 | 357                | 150                                               |      |      |      | 3.9                            | 1312                     | 88                       | 2.5                      | 26.6 <sup>†</sup>      | 9.2                     | 387                     | 7300                    |
| 11                 | 178                | 399                                               |      |      |      | 4.1                            | 545                      | 37.3                     | 1.42                     | 11 <sup>†</sup>        | 3.8                     | 250                     | 3300                    |
| 15                 | 208                | 290                                               |      |      |      | 3.8                            | 717                      | 58                       | 1.3                      | 15.6 <sup>†</sup>      | 6                       | 282                     | 4500                    |
| 20                 | 266                | 199                                               |      |      |      | 4.1                            | 1038                     | 68                       | 2.1                      | 19.8 <sup>†</sup>      | 7.6                     | 350                     | 5700                    |
| 4                  | 83                 | 900                                               |      |      |      | 4.1                            | 263                      | 21                       | 0.75                     | 6 <sup>†</sup>         | 1.8                     | 177                     | 1500                    |
| 7                  | 104                | 600                                               |      |      |      | 3.9                            | 372                      | 28                       | 1.2                      | 8.2 <sup>†</sup>       | 2.8                     | 198                     | 2400                    |
| 11                 | 198                | 399                                               |      |      |      | 4                              | 646                      | 42                       | 1.1                      | 13.2 <sup>†</sup>      | 4.3                     | 278                     | 4200                    |
| 15                 | 208                | 290                                               |      |      |      | 4                              | 841                      | 58                       | 1.1                      | 17.2 <sup>†</sup>      | 5.6                     | 320                     | 5500                    |
| 25                 | 357                | 190                                               |      |      |      | 4                              | 1278                     | 87                       | 1.4                      | 26.4 <sup>†</sup>      | 9.5                     | 408                     | 8270                    |
| 7                  | 104                | 650                                               |      |      |      | 4                              | 434                      | 30                       | 1                        | 9.2 <sup>†</sup>       | 2.7                     | 224                     | 2800                    |
| 11                 | 28                 | 399                                               |      |      |      | 4.1                            | 545                      | 37.3                     | 1.42                     | 11 <sup>†</sup>        | 3.8                     | 250                     | 3300                    |
| 15                 | 27.8               | 290                                               |      |      |      | 3.8                            | 717                      | 58                       | 1.3                      | 15.6 <sup>†</sup>      | 6                       | 282                     | 4500                    |
| 20                 | 28                 | 199                                               |      |      |      | 4.1                            | 1038                     | 68                       | 2.1                      | 19.8 <sup>†</sup>      | 7.6                     | 350                     | 5700                    |
| 4                  | 83                 | 900                                               |      |      |      | 4.1                            | 263                      | 21                       | 0.75                     | 6 <sup>†</sup>         | 1.8                     | 177                     | 1500                    |
| 7                  | 25                 | 600                                               |      |      |      | 3.9                            | 372                      | 28                       | 1.2                      | 8.2 <sup>†</sup>       | 2.8                     | 198                     | 2400                    |
| 11                 | 28                 | 399                                               |      |      |      | 4                              | 646                      | 42                       | 1.1                      | 13.2 <sup>†</sup>      | 4.3                     | 278                     | 4200                    |
| 15                 | 28                 | 290                                               |      |      |      | 4                              | 841                      | 58                       | 1.1                      | 17.2 <sup>†</sup>      | 5.3                     | 320                     | 5500                    |
| 25                 | 28                 | 190                                               |      |      |      | 4                              | 1278                     | 87                       | 1.4                      | 26.4 <sup>†</sup>      | 9.5                     | 408                     | 8270                    |
| 7                  | 25                 | 650                                               |      |      |      | 4                              | 434                      | 30                       | 1                        | 9.2 <sup>†</sup>       | 2.7                     | 224                     | 2800                    |
| 27                 | 357                | 160                                               |      |      |      | 4                              | 1294                     | 80                       | 2.3                      | 26 <sup>†</sup>        | 8.8                     | 440                     | 7500                    |
| 37                 | 417                | 109                                               |      |      |      | 3.8                            | 2154                     | 135                      | 2.7                      | 40 <sup>†</sup>        | 11.9                    | 473                     | 10500                   |
| 4                  | 83                 | 900                                               |      |      |      | 4.1                            | 263                      | 21                       | 0.75                     | 6 <sup>†</sup>         | 1.8                     | 177                     | 1500                    |
| 7                  | 104                | 600                                               |      |      |      | 3.9                            | 372                      | 28                       | 1.2                      | 8.2 <sup>†</sup>       | 2.8                     | 198                     | 2400                    |
| 11                 | 198                | 399                                               |      |      |      | 4                              | 646                      | 42                       | 1.1                      | 13.2 <sup>†</sup>      | 4.3                     | 278                     | 4200                    |
| 15                 | 208                | 290                                               |      |      |      | 4                              | 841                      | 58                       | 1.1                      | 17.2 <sup>†</sup>      | 5.3                     | 320                     | 5500                    |
| 25                 | 357                | 190                                               |      |      |      | 4                              | 1278                     | 87                       | 1.4                      | 26.4 <sup>†</sup>      | 9.5                     | 408                     | 8270                    |
| 7                  | 104                | 650                                               |      |      |      | 4                              | 434                      | 30                       | 17.5                     | 9.2 <sup>†</sup>       | 2.7                     | 224                     | 2800                    |
| 8                  | 156                | 500                                               |      |      |      | 4.1                            | 545                      | 37.3                     | 1.42                     | 11 <sup>†</sup>        | 3.8                     | 250                     | 3300                    |
| 12                 | 208                | 360                                               |      |      |      | 3.8                            | 717                      | 58                       | 1.3                      | 15.6 <sup>†</sup>      | 6                       | 282                     | 4500                    |
| 18                 | 276                | 250                                               |      |      |      | 4.1                            | 1038                     | 68                       | 2.1                      | 20 <sup>†</sup>        | 7.6                     | 350                     | 5700                    |

\* R<sub>DS(ON)</sub> measured at V<sub>GS</sub> other than 10V, 4.5V or 1.8V.  
<sup>†</sup> Q<sub>g</sub> measured with V<sub>GS</sub> = 10V. In all other cases V<sub>GS</sub> = 4.5V.

## Intelligent Power Modules (IPMs)

| Part Number    |     | Package | Description          | Input Logic | Rated Voltage (V) | Rated Current (A) | Emitter Configuration |
|----------------|-----|---------|----------------------|-------------|-------------------|-------------------|-----------------------|
| IPM-5 / IPM-5A |     |         |                      |             |                   |                   |                       |
| AIM5C05B060N1  |     | IPM-5   | 3-Phase IGBT IPM     | Active High | 600               | 5                 | Common                |
| AIM5D05B060N1  |     | IPM-5   | 3-Phase IGBT IPM     | Active High | 600               | 5                 | Separated             |
| AIM5D10B060M1  |     | IPM-5   | 3-Phase IGBT IPM     | Active High | 600               | 10                | Separated             |
| AIM5D05K060M2  | NEW | IPM-5A  | 3-Phase ESD IGBT IPM | Active High | 600               | 5                 | Separated             |
| AIM5D05K060M2S | NEW | IPM-5   | 3-Phase ESD IGBT IPM | Active High | 600               | 5                 | Separated             |

## Insulated-Gate Bipolar Transistors (IGBTs) — Single

| Part Number   | Package | Configuration | V <sub>CE</sub> (max)<br>(V) | I <sub>C</sub> (max) (A) |       | V <sub>CE(sat)</sub> (typ)<br>(V) | E <sub>ON</sub> (typ)<br>(mJ) | E <sub>OFF</sub> (typ)<br>(mJ) | Q <sub>g</sub> (typ)<br>(nC) |
|---------------|---------|---------------|------------------------------|--------------------------|-------|-----------------------------------|-------------------------------|--------------------------------|------------------------------|
|               |         |               |                              | 25°C                     | 100°C |                                   |                               |                                |                              |
| TO-247        |         |               |                              |                          |       |                                   |                               |                                |                              |
| AOKS30B60D1   | TO-247  | IGBT          | 600                          | 60                       | 30    | 2                                 | 1.1                           | 0.24                           | 34                           |
| AOKS40B65H2AL | TO-247  | IGBT          | 650                          | 80                       | 40    | 2.05                              | 1.17                          | 0.54                           | 61                           |
| AOKS40B60D1   | TO-247  | IGBT          | 600                          | 80                       | 40    | 1.85                              | 1.55                          | 0.3                            | 45                           |

## Insulated-Gate Bipolar Transistors (IGBTs) — Co-Pack

| Part Number  | Package | Configuration                 | V <sub>CE</sub> (max)<br>(V) | I <sub>C</sub> (max) (A) |       |
|--------------|---------|-------------------------------|------------------------------|--------------------------|-------|
|              |         |                               |                              | 25°C                     | 100°C |
| TO-220       |         |                               |                              |                          |       |
| AOT5B65M1    | TO-220  | IGBT with Anti-Parallel Diode | 650                          | 10                       | 5     |
| AOT10B65M1   | TO-220  | IGBT with Anti-Parallel Diode | 650                          | 10                       | 10    |
| AOT10B65M2   | TO-220  | IGBT with Anti-Parallel Diode | 650                          | 10                       | 10    |
| AOT15B65M1   | TO-220  | IGBT with Anti-Parallel Diode | 650                          | 30                       | 15    |
| AOT15B65M3   | TO-220  | IGBT with Anti-Parallel Diode | 650                          | 30                       | 15    |
| AOT20B65M1   | TO-220  | IGBT with Anti-Parallel Diode | 650                          | 40                       | 20    |
| AOT5B60D     | TO-220  | IGBT with Anti-Parallel Diode | 600                          | 10                       | 5     |
| AOT10B60D    | TO-220  | IGBT with Anti-Parallel Diode | 600                          | 20                       | 10    |
| AOT15B60D    | TO-220  | IGBT with Anti-Parallel Diode | 600                          | 30                       | 15    |
| TO-220F      |         |                               |                              |                          |       |
| AOTF5B65M1   | TO-220F | IGBT with Anti-Parallel Diode | 650                          | 10                       | 5     |
| AOTF5B65M2   | TO-220F | IGBT with Anti-Parallel Diode | 650                          | 10                       | 5     |
| AOTF10B65M1  | TO-220F | IGBT with Anti-Parallel Diode | 650                          | 20                       | 10    |
| AOTF10B65M2  | TO-220F | IGBT with Anti-Parallel Diode | 650                          | 20                       | 10    |
| AOTF15B65M1  | TO-220F | IGBT with Anti-Parallel Diode | 650                          | 30                       | 15    |
| AOTF15B65M2  | TO-220F | IGBT with Anti-Parallel Diode | 650                          | 30                       | 15    |
| AOTF15B65M3  | TO-220F | IGBT with Anti-Parallel Diode | 650                          | 30                       | 15    |
| AOTF20B65LN2 | TO-220F | IGBT with Anti-Parallel Diode | 650                          | 40                       | 20    |
| AOTF20B65M1  | TO-220F | IGBT with Anti-Parallel Diode | 650                          | 40                       | 20    |
| AOTF20B65M2  | TO-220F | IGBT with Anti-Parallel Diode | 650                          | 40                       | 20    |
| AOTF5B60D    | TO-220F | IGBT with Anti-Parallel Diode | 600                          | 10                       | 5     |
| AOTF10B60D   | TO-220F | IGBT with Anti-Parallel Diode | 600                          | 20                       | 10    |
| AOTF10B60D2  | TO-220F | IGBT with Anti-Parallel Diode | 600                          | 23                       | 10    |
| AOTF15B60D   | TO-220F | IGBT with Anti-Parallel Diode | 600                          | 30                       | 15    |
| AOTF15B60D2  | TO-220F | IGBT with Anti-Parallel Diode | 600                          | 23                       | 15    |

| $V_{CE(sat)}$ (typ)<br>(V) | $E_{ON}$ (typ)<br>(mJ) | $E_{OFF}$ (typ)<br>(mJ) | $Q_g$ (typ)<br>(nC) | $V_F$ (typ)<br>(V) | $Q_{rr}$ (typ)<br>( $\mu C$ ) | $I_{rm}$ (typ)<br>(A) |
|----------------------------|------------------------|-------------------------|---------------------|--------------------|-------------------------------|-----------------------|
| 1.57                       | 0.08                   | 0.07                    | 14                  | 1.8                | 0.24                          | 2.78                  |
| 1.6                        | 0.18                   | 0.13                    | 24                  | 1.9                | 0.4                           | 3.8                   |
| 1.6                        | 0.18                   | 0.13                    | 24                  | 1.6                | 0.45                          | 4                     |
| 1.7                        | 0.29                   | 0.2                     | 32                  | 1.77               | 0.7                           | 4.7                   |
| 1.95                       | 0.28                   | 0.19                    | 25.4                | 1.9                | 0.4                           | 3.8                   |
| 1.7                        | 0.47                   | 0.27                    | 46                  | 1.66               | 0.8                           | 5.2                   |
| 1.55                       | 0.14                   | 0.04                    | 9.4                 | 1.46               | 0.23                          | 4.4                   |
| 1.53                       | 0.26                   | 0.07                    | 17.4                | 1.52               | 0.25                          | 5                     |
| 1.6                        | 0.42                   | 0.11                    | 25.4                | 1.43               | 0.48                          | 5.8                   |
| 1.57                       | 0.08                   | 0.07                    | 14                  | 1.8                | 0.24                          | 2.78                  |
| 1.57                       | 0.08                   | 0.07                    | 14                  | 1.48               | 0.27                          | 3.5                   |
| 1.6                        | 0.18                   | 0.13                    | 24                  | 1.9                | 0.4                           | 3.8                   |
| 1.6                        | 0.18                   | 0.13                    | 24                  | 1.6                | 0.5                           | 4                     |
| 1.7                        | 0.29                   | 0.2                     | 32                  | 1.77               | 0.7                           | 4.7                   |
| 1.7                        | 0.29                   | 0.2                     | 32                  | 1.5                | 0.7                           | 5.4                   |
| 1.95                       | 0.28                   | 0.19                    | 25.4                | 1.9                | 0.4                           | 3.8                   |
| 1.54                       | 0.45                   | 0.26                    | 14                  | 1.6                | 0.6                           | 5.4                   |
| 1.7                        | 0.47                   | 0.27                    | 46                  | 1.66               | 0.8                           | 5.2                   |
| 1.7                        | 0.58                   | 0.28                    | 46                  | 1.56               | 0.8                           | 5.6                   |
| 1.55                       | 0.14                   | 0.04                    | 9.4                 | 1.46               | 0.23                          | 4.4                   |
| 1.53                       | 0.26                   | 0.07                    | 17.4                | 1.52               | 0.25                          | 5                     |
| 1.55                       | 0.14                   | 0.04                    | 9.4                 | 1.46               | 0.23                          | 4.4                   |
| 1.6                        | 0.42                   | 0.11                    | 25.4                | 1.43               | 0.48                          | 5.8                   |
| 1.53                       | 0.26                   | 0.07                    | 17.4                | 1.52               | 0.25                          | 5                     |

## Insulated-Gate Bipolar Transistors (IGBTs) — Co-Pack (Continued)

| Part Number  |     | Package | Configuration                 | V <sub>CE</sub> (max)<br>(V) | I <sub>C</sub> (max) (A) |       |
|--------------|-----|---------|-------------------------------|------------------------------|--------------------------|-------|
|              |     |         |                               |                              | 25°C                     | 100°C |
| TO-247       |     |         |                               |                              |                          |       |
| AOK20B135D1  |     | TO-247  | IGBT with Anti-Parallel Diode | 1350                         | 40                       | 20    |
| AOK20B135E1  |     | TO-247  | IGBT with Anti-Parallel Diode | 1350                         | 40                       | 20    |
| AOK30B135W1  |     | TO-247  | IGBT with Anti-Parallel Diode | 1350                         | 60                       | 30    |
| AOK20B120E1  |     | TO-247  | IGBT with Anti-Parallel Diode | 1200                         | 40                       | 20    |
| AOK20B120E2  |     | TO-247  | IGBT with Anti-Parallel Diode | 1200                         | 40                       | 20    |
| AOK20B120D1  |     | TO-247  | IGBT with Anti-Parallel Diode | 1200                         | 40                       | 20    |
| AOK30B120D2  |     | TO-247  | IGBT with Anti-Parallel Diode | 1200                         | 60                       | 30    |
| AOK40B120H1  |     | TO-247  | IGBT with Anti-Parallel Diode | 1200                         | 80                       | 40    |
| AOK20B65M1   |     | TO-247  | IGBT with Anti-Parallel Diode | 650                          | 40                       | 20    |
| AOK20B65M2   |     | TO-247  | IGBT with Anti-Parallel Diode | 650                          | 40                       | 20    |
| AOK30B65M2   |     | TO-247  | IGBT with Anti-Parallel Diode | 650                          | 60                       | 30    |
| AOK40B65H1   |     | TO-247  | IGBT with Anti-Parallel Diode | 650                          | 80                       | 40    |
| AOK40B65H2AL |     | TO-247  | IGBT with Anti-Parallel Diode | 650                          | 80                       | 40    |
| AOK40B65M3   |     | TO-247  | IGBT with Anti-Parallel Diode | 650                          | 80                       | 40    |
| AOK50B65H1   |     | TO-247  | IGBT with Anti-Parallel Diode | 650                          | 100                      | 50    |
| AOK50B65M2   |     | TO-247  | IGBT with Anti-Parallel Diode | 650                          | 80                       | 40    |
| AOK60B65H1   |     | TO-247  | IGBT with Anti-Parallel Diode | 650                          | 120                      | 60    |
| AOK60B65H2AL | NEW | TO-247  | IGBT with Anti-Parallel Diode | 650                          | 120                      | 60    |
| AOK60B65M3   |     | TO-247  | IGBT with Anti-Parallel Diode | 650                          | 120                      | 60    |
| AOK75B65H1   |     | TO-247  | IGBT with Anti-Parallel Diode | 650                          | 150                      | 75    |
| AOK10B60D    |     | TO-247  | IGBT with Anti-Parallel Diode | 600                          | 20                       | 10    |
| AOK15B60D    |     | TO-247  | IGBT with Anti-Parallel Diode | 600                          | 30                       | 15    |
| AOK20B60D1   |     | TO-247  | IGBT with Anti-Parallel Diode | 600                          | 40                       | 20    |
| AOK30B60D    |     | TO-247  | IGBT with Anti-Parallel Diode | 600                          | 60                       | 30    |
| AOK30B60D1   |     | TO-247  | IGBT with Anti-Parallel Diode | 600                          | 60                       | 30    |
| AOK40B60D    |     | TO-247  | IGBT with Anti-Parallel Diode | 600                          | 80                       | 40    |
| AOK40B60D1   |     | TO-247  | IGBT with Anti-Parallel Diode | 600                          | 80                       | 40    |
| AOK50B60D1   |     | TO-247  | IGBT with Anti-Parallel Diode | 600                          | 100                      | 50    |
| AOK60B60D1   |     | TO-247  | IGBT with Anti-Parallel Diode | 600                          | 120                      | 60    |
| AOK75B60D1   |     | TO-247  | IGBT with Anti-Parallel Diode | 600                          | 150                      | 75    |

| $V_{CE(sat)}$ (typ)<br>(V) | $E_{ON}$ (typ)<br>(mJ) | $E_{OFF}$ (typ)<br>(mJ) | $Q_g$ (typ)<br>(nC) | $V_F$ (typ)<br>(V) | $Q_{rr}$ (typ)<br>( $\mu$ C) | $I_{rm}$ (typ)<br>(A) |
|----------------------------|------------------------|-------------------------|---------------------|--------------------|------------------------------|-----------------------|
| 1.57                       |                        | 1.05                    | 66                  | 1.46               |                              |                       |
| 1.8                        |                        | 0.8                     | 58                  | 1.6                |                              |                       |
| 1.8                        |                        | 1.47                    | 62                  | 1.6                |                              |                       |
| 1.68                       |                        | 0.83                    | 60.5                | 1.6                |                              |                       |
| 1.75                       |                        | 0.82                    | 53.5                | 1.6                |                              |                       |
| 1.54                       |                        | 0.94                    | 67.5                | 1.33               |                              |                       |
| 1.77                       |                        | 1.28                    | 67                  | 1.5                |                              |                       |
| 1.8                        | 2.45                   | 1.24                    | 128                 | 2.8                | 1.1                          | 6.5                   |
| 1.7                        | 0.47                   | 0.27                    | 46                  | 1.66               | 1.6                          | 7.1                   |
| 1.7                        | 0.58                   | 0.28                    | 46                  | 1.56               | 0.8                          | 5.6                   |
| 1.66                       | 1.02                   | 0.41                    | 63                  | 1.56               | 1.2                          | 7.4                   |
| 1.9                        | 1.27                   | 0.46                    | 63                  | 2.22               | 1                            | 6.2                   |
| 2.05                       | 1.17                   | 0.54                    | 61                  | 2.12               | 0.7                          | 4.7                   |
| 1.95                       | 1.3                    | 0.5                     | 59                  | 2.22               | 1                            | 6                     |
| 1.9                        | 1.92                   | 0.85                    | 76                  | 2.25               | 0.9                          | 6.3                   |
| 1.95                       | 1.3                    | 0.5                     | 59                  | 2.22               | 1                            | 6                     |
| 1.88                       | 2.42                   | 1.17                    | 90                  | 2.08               | 1.2                          | 7.8                   |
| <b>1.95</b>                | <b>2.36</b>            | <b>1.17</b>             | <b>84</b>           | <b>1.88</b>        |                              | <b>6</b>              |
| 1.94                       | 2.6                    | 1.3                     | 106                 | 1.91               | 1.3                          | 7.5                   |
| 1.85                       | 3.77                   | 2.04                    | 109                 | 2.15               | 1.2                          | 7.9                   |
| 1.53                       | 0.32                   | 0.07                    | 17.4                | 1.52               | 0.25                         | 5                     |
| 1.6                        | 0.51                   | 0.11                    | 25.4                | 1.43               | 0.48                         | 5.8                   |
| 1.85                       | 0.76                   | 0.18                    | 24.6                | 1.35               | 0.43                         | 6.5                   |
| 1.6                        | 1.18                   | 0.2                     | 47                  | 1.34               | 0.8                          | 9.5                   |
| 1.85                       | 1.1                    | 0.24                    | 34                  | 1.47               | 0.50                         | 7                     |
| 1.6                        | 1.72                   | 0.3                     | 63.5                | 1.36               | 0.86                         | 10                    |
| 1.85                       | 1.55                   | 0.3                     | 45                  | 1.42               | 0.63                         | 8                     |
| 1.85                       | 2.37                   | 0.5                     | 64                  | 1.4                | 0.77                         | 9                     |
| 1.85                       | 3.1                    | 0.73                    | 75                  | 1.34               | 0.84                         | 10                    |
| 1.72                       | 3.7                    | 1.3                     | 118                 | 1.44               | 0.9                          | 10                    |

## Insulated-Gate Bipolar Transistors (IGBTs) — Co-Pack (Continued)

| Part Number | Package | Configuration                 | V <sub>CE</sub> (max)<br>(V) | I <sub>C</sub> (max) (A) |       |
|-------------|---------|-------------------------------|------------------------------|--------------------------|-------|
|             |         |                               |                              | 25°C                     | 100°C |
| TO-252      |         |                               |                              |                          |       |
| AOD5B65M1   | TO-252  | IGBT with Anti-Parallel Diode | 650                          | 10                       | 5     |
| AOD5B65M1H  | TO-252  | IGBT with Anti-Parallel Diode | 650                          | 10                       | 5     |
| AOD5B65N1   | TO-252  | IGBT with Anti-Parallel Diode | 650                          | 10                       | 5     |
| AOD5B60D    | TO-252  | IGBT with Anti-Parallel Diode | 600                          | 10                       | 5     |
| AOD6B60M1   | TO-252  | IGBT with Anti-Parallel Diode | 600                          | 12                       | 6     |
| AOD7B65M3   | TO-252  | IGBT with Anti-Parallel Diode | 650                          | 14                       | 7     |
| TO-263      |         |                               |                              |                          |       |
| AOB5B65M1   | TO-263  | IGBT with Anti-Parallel Diode | 650                          | 10                       | 5     |
| AOB10B65M1  | TO-263  | IGBT with Anti-Parallel Diode | 650                          | 20                       | 10    |
| AOB15B65M1  | TO-263  | IGBT with Anti-Parallel Diode | 650                          | 30                       | 15    |
| AOB5B60D    | TO-263  | IGBT with Anti-Parallel Diode | 600                          | 10                       | 5     |
| AOB10B60D   | TO-263  | IGBT with Anti-Parallel Diode | 600                          | 20                       | 10    |
| AOB15B60D   | TO-263  | IGBT with Anti-Parallel Diode | 600                          | 30                       | 15    |
| AOB20B65M1  | TO-263  | IGBT with Anti-Parallel Diode | 650                          | 40                       | 20    |

| $V_{CE(sat)}$ (typ)<br>(V) | $E_{ON}$ (typ)<br>(mJ) | $E_{OFF}$ (typ)<br>(mJ) | $Q_g$ (typ)<br>(nC) | $V_F$ (typ)<br>(V) | $Q_{rr}$ (typ)<br>( $\mu$ C) | $I_{rm}$ (typ)<br>(A) |
|----------------------------|------------------------|-------------------------|---------------------|--------------------|------------------------------|-----------------------|
| 1.57                       | 0.08                   | 0.07                    | 14                  | 1.8                | 0.24                         | 2.78                  |
| 1.57                       | 0.08                   | 0.07                    | 14                  | 1.8                | 0.24                         | 2.78                  |
| 2.5                        | 0.081                  | 0.049                   | 9.2                 | 2.13               | 0.19                         | 2.5                   |
| 1.6                        | 0.14                   | 0.04                    | 9.4                 | 1.46               | 0.23                         | 4.4                   |
| 1.7                        | 0.12                   | 0.09                    | 14                  | 1.45               | 0.15                         | 3.5                   |
| 1.87                       | 0.108                  | 0.099                   | 14                  | 2.6                | 0.29                         | 3                     |
| 1.57                       | 0.08                   | 0.07                    | 14                  | 1.8                | 0.24                         | 2.78                  |
| 1.6                        | 0.18                   | 0.13                    | 24                  | 1.9                | 0.4                          | 3.8                   |
| 1.7                        | 0.29                   | 0.2                     | 32                  | 1.77               | 0.7                          | 4.7                   |
| 1.55                       | 0.18                   | 0.09                    | 9.4                 | 1.46               | 0.23                         | 4.4                   |
| 1.6                        | 0.26                   | 0.07                    | 17.4                | 1.52               | 0.25                         | 5                     |
| 1.6                        | 0.42                   | 0.11                    | 25.4                | 1.43               | 0.48                         | 5.8                   |
| 1.7                        | 0.47                   | 0.27                    | 46                  | 1.66               | 0.8                          | 5.2                   |

## Package Type

AOS delivers advanced package technologies that meet the ever-increasing performance and power-efficiency requirements of our customers. We offer a range of package options to support a wide spectrum of end-applications,



**NOTE:** Images are not to scale

from handheld, to computing, to consumer, and high-power industrial applications.



QFN (1.8x2.6)



QFN (2.1x1.6)



QFN (3x3)



QFN (3.5x5)



QFN (4x4)



QFN (5x5)



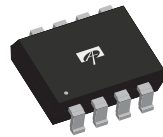
QFN (6x6)



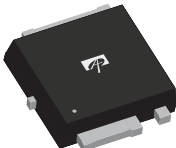
SC-70 (2.1x1.3)



SC-89 (1.6x1.2)



SO-8 (4.9x3.9)  
SO-8 Exposed Pad



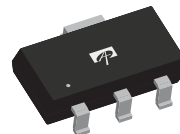
Ultra SO-8 (5.11x5.0)



SOT-23 (2.9x1.6)  
SOT23A (2.9x1.3)



SOT-143 (2.8x1.2)



SOT-223 (6.5x3.4)



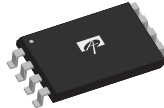
TOLLA (9.8x11.68)



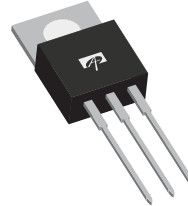
TSOP-6 (2.9x1.6)



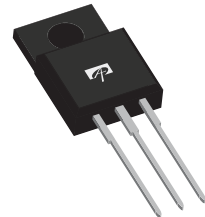
TSOT23-6 (2.9x1.5)



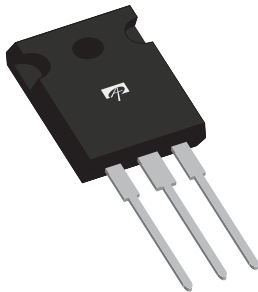
TSSOP-8 (3x4.4)



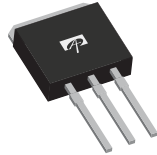
TO-220 (10.03x15.44)  
(28.26 w/leads)



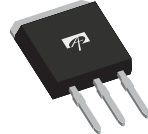
TO-220F (10.16x15.87)  
(28.86 w/leads)



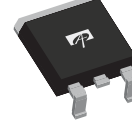
TO-247 (15.8x21)  
(40.92 w/leads)



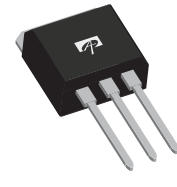
TO-251 (6.5x5.55)  
(14.75 w/leads)



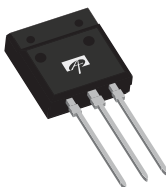
TO-251A/B (6.6x6.1)  
(9.73 w/leads for A)  
(10.48 w/leads for B)



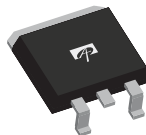
DPAK (TO-252)  
6.6x6.1  
(10.03 w/leads)



I<sup>2</sup>PAK (TO-262)  
10.15x8.78  
(22.45 w/leads)



I<sup>2</sup>PAK (TO-262F)  
10.15x8.78  
(22.45 w/leads)



D<sup>2</sup>PAK (TO-263)  
9.14x10.03  
(15.24 w/leads)

NOTE: Images are not to scale

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