

2SJ0536

Silicon P-channel MOSFET

Secondary battery packs (Li ion battery, etc.)
For switching circuits

■ Features

- High-speed switching
- S-mini type package, allowing downsizing of the sets and automatic insertion through the tape/magazine packing
- Low voltage drive (V_{th} : -1.0 V to 2.0 V)
- Low ON resistance

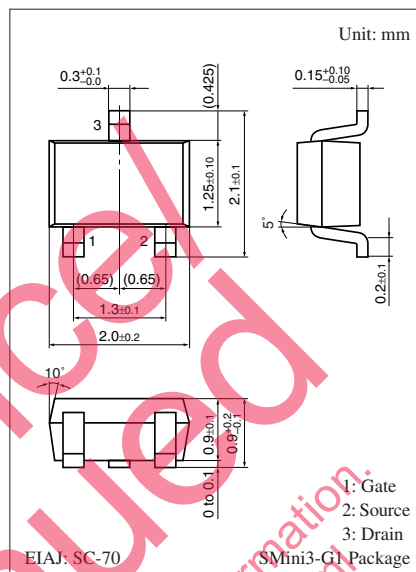
■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Rating | Unit |
|----------------------------------|-----------|-----------------|------------------|
| Drain-source surrender voltage | V_{DSS} | -30 | V |
| Gate-source voltage (Drain open) | V_{GSO} | ± 20 | V |
| Drain current | I_D | -100 | mA |
| Peak drain current | I_{DP} | -200 | mA |
| Power dissipation | P_D | 150 | mW |
| Channel temperature | T_{ch} | 150 | $^\circ\text{C}$ |
| Storage temperature | T_{ste} | -55 to $+150$ | $^\circ\text{C}$ |

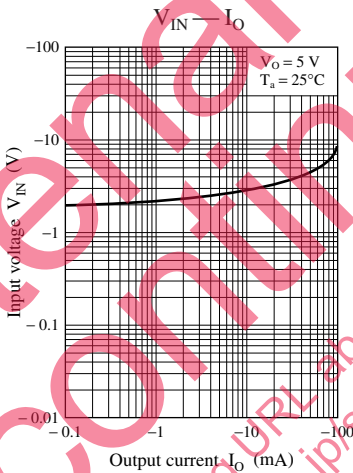
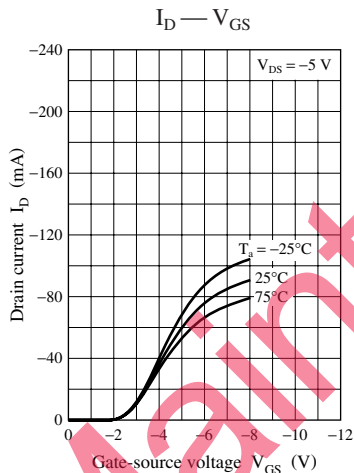
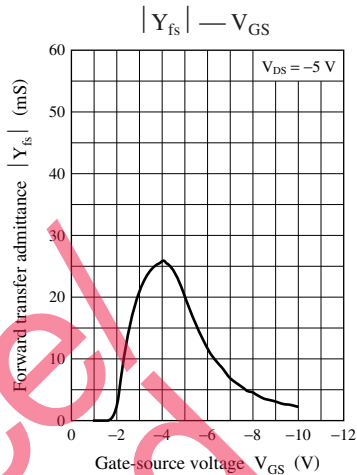
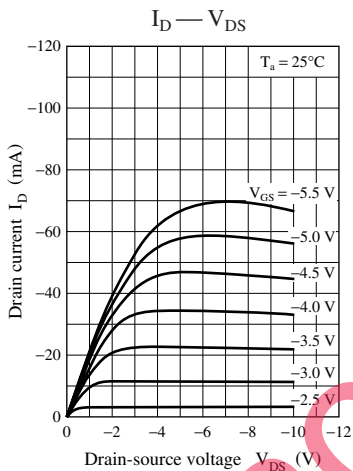
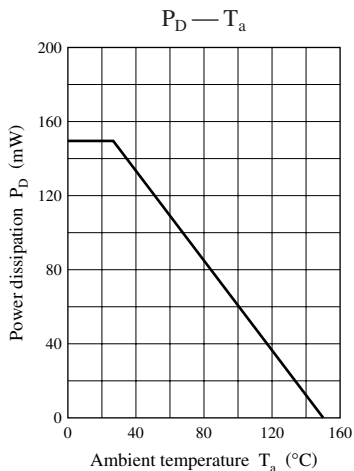
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|-----------------------------|--------------|---------------------------------------------------------------------|--------|-----|-----------|---------------|
| Drain-source cutoff current | I_{DSS} | $V_{DS} = -30$ V, $V_{GS} = 0$ | | | -0.1 | μA |
| Gate-source cutoff current | I_{GSS} | $V_{GS} = \pm 20$ V, $V_{DS} = 0$ | | | ± 1.0 | μA |
| Gate threshold voltage | V_{th} | $V_{DS} = -5$ V, $I_D = -1$ μA | -1.0 | | -2.0 | V |
| Forward transfer admittance | $ Y_{fs} $ | $V_{DS} = -5$ V, $I_D = -10$ mA | 8 | | | mS |
| Drain-source ON resistance | $R_{DS(on)}$ | $V_{GS} = -5$ V, $I_D = -10$ mA | | 50 | 75 | Ω |
| Turn-on time | t_{on} | $V_{DD} = -5$ V, $V_{GS} = 0$ V ~ -5 V $R_L = 200$ Ω | | 100 | | μs |
| Turn-off time | t_{off} | $V_{DD} = -5$ V, $V_{GS} = -5$ V ~ 0 V $R_L = 200$ Ω | | 25 | | μs |

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.
2. Observe precautions for handling. Electrostatic sensitive devices.



Marking Symbol: 2C



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