



THE DATASHEET OF RGP15A





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RGP15A thru RGP15M Fast Switching Plastic Rectifier DO201AD Type Package

Description:

The RGP15 Series rectifiers are glass passivated junction, fast switching plastic rectifiers used for fast switching rectification of power supplies, inverters, converters, and freewheeling diodes for consumer and telecommunication applications.

Features:

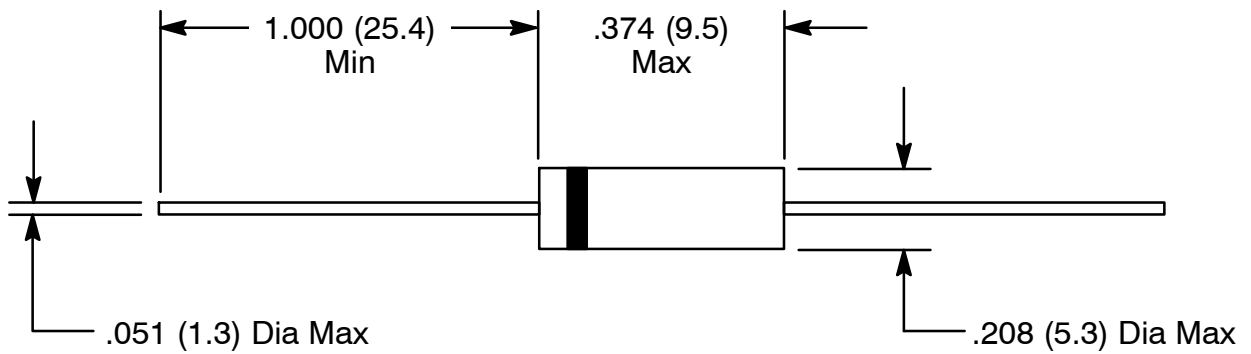
- Superrectifier Structure for High Reliability Condition
- Fast Switching for High Efficiency
- Low Leakage Current, Typical I_R less than $0.1\mu A$
- High Forward Surge Capability

Absolute Maximum Ratings: ($T_A = +25^\circ C$, unless otherwise specified)

| | |
|---|-------|
| Max. Repetitive Reverse Voltage, V_{RRM} | |
| RGP15A | 50V |
| RGP15B | 100V |
| RGP15D | 200V |
| RGP15G | 400V |
| RGP15J | 600V |
| RGP15K | 800V |
| RGP15M | 1000V |
| Max. RMS Voltage, V_{RMS} | |
| RGP15A | 35V |
| RGP15B | 70V |
| RGP15D | 140V |
| RGP15G | 280V |
| RGP15J | 420V |
| RGP15K | 560V |
| RGP15M | 700V |
| Max. DC Blocking Voltage, V_{DC} | |
| RGP15A | 50V |
| RGP15B | 100V |
| RGP15D | 200V |
| RGP15G | 400V |
| RGP15J | 600V |
| RGP15K | 800V |
| RGP15M | 1000V |
| Average Rectified Forward Current ($T_A = +55^\circ C$, .375" (9.5mm) Lead Length), $I_{F(AV)}$ | |
| 1.5A | |
| Peak Forward Surge Current, I_{FSM} | |
| 8.3ms single half sine wave superimposed on rated load | |
| 50A | |
| Max. Full Load Reverse Current, $I_{R(AV)}$ | |
| Full Cycle Average, $T_A = +55^\circ C$, .375" (9.5mm) Lead Length | |
| 100 μA | |
| Storage Temperature Range, T_{stg} | |
| -65° to +175°C | |
| Typical Thermal Resistance, Junction-to-Ambient (Note 1), R_{thJA} | |
| 45°C/W | |
| Note 1. Thermal resistance from junction to ambient at .375" (9.5mm) lead length, PCB mounted. | |

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, unless otherwise specified)

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit | |
|---|----------|--|----------------------------|-----|-----|------|---------------|
| Instantaneous Forward Voltage | V_F | $I_F = 1.5\text{A}$ | - | - | 1.3 | V | |
| DC Reverse Leakage Current | I_R | At Rated DC Blocking Voltage | $T_A = +25^\circ\text{C}$ | - | - | 5 | μA |
| | | | $T_A = +150^\circ\text{C}$ | - | - | 200 | μA |
| Reverse Recovery Time RGP15A, RGP15B RGP15D, RGP15G RGP15J RGP15K, RGP15M | t_{rr} | $I_F = 500\text{mA}, I_R = 1\text{A}, I_{rr} = 250\text{mA}$ | - | - | 150 | ns | |
| | | | - | - | 150 | ns | |
| | | | - | - | 250 | ns | |
| | | | - | - | 500 | V | |
| Junction Capacitance | C_J | $V_R = 4\text{V}, f = 1\text{MHz}$ | - | 25 | - | pF | |



Color Band Denotes Cathode

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