



Micro Commercial Components
 21201 Itasca Street Chatsworth
 CA 91311
 Phone: (818) 701-4933
 Fax: (818) 701-4939

RL251GP THRU RL257GP

2.5 Amp Glass Passivated Rectifier 50-1000 Volts

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame retardant epoxy molding compound
- 2.5 ampere operation at $T_A=55^\circ\text{C}$ with no thermal runaway
- Glass passivated junction in R-3 package

Maximum Ratings

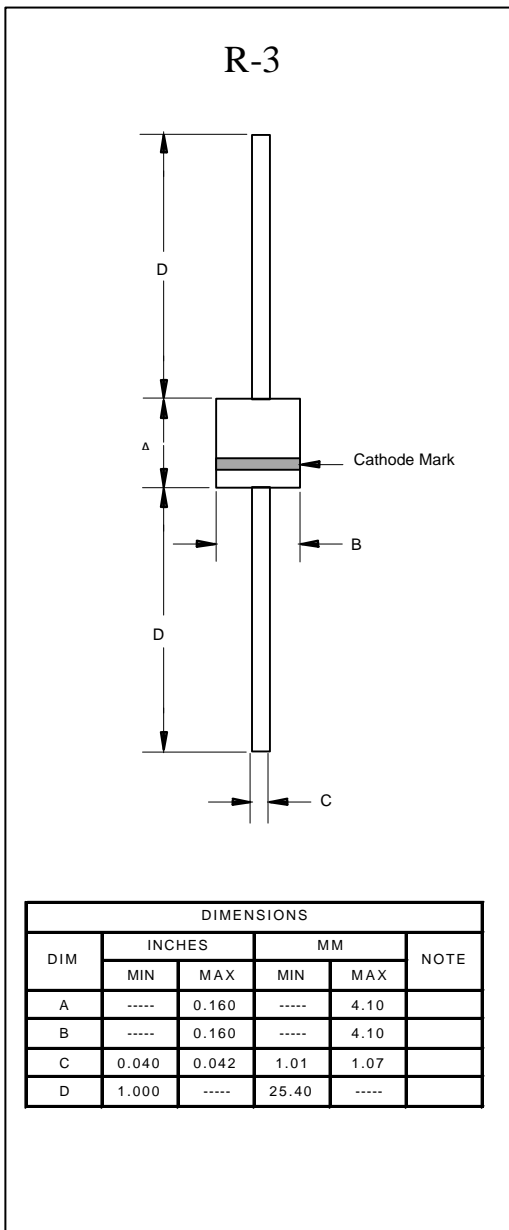
- Operating Temperature: -55°C to $+150^\circ\text{C}$
- Storage Temperature: -55°C to $+150^\circ\text{C}$
- Maximum Thermal Resistance; 25°C/W Junction To Lead

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| RL251GP | --- | 50V | 35V | 50V |
| RL252GP | --- | 100V | 70V | 100V |
| RL253GP | --- | 200V | 140V | 200V |
| RL254GP | --- | 400V | 280V | 400V |
| RL255GP | --- | 600V | 420V | 600V |
| RL256GP | --- | 800V | 560V | 800V |
| RL257GP | --- | 1000V | 700V | 1000V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|---------------|---|
| Average Forward Current | $I_{F(AV)}$ | 2.5A | $T_A=55^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 70A | 8.3mS Sina half |
| Maximum Instantaneous Forward Voltage | V_F | 1.1V | $T_A=25^\circ\text{C}$, $I_F=2.5\text{A}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5.0uA 50uA | $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$ |
| Typical Junction Capacitance | C_J | 40pF | Measured at 1.0MHz; $V_R=4.0\text{V}$ |

*Pulse test: Pulse width 300 sec, Duty cycle 1%



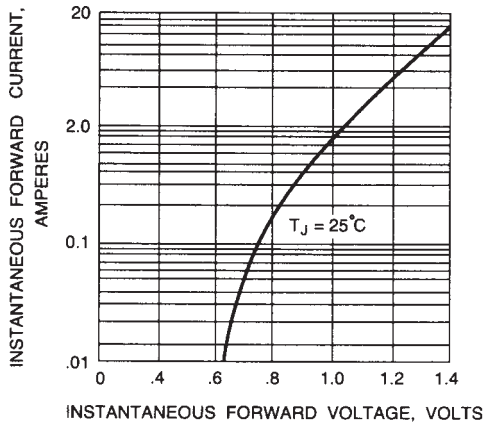


Fig. 1 - TYPICAL FORWARD CHARACTERISTICS

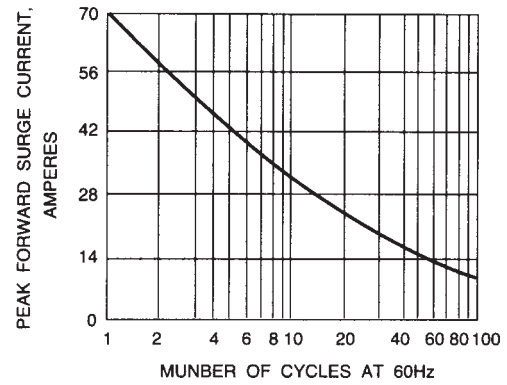


Fig. 2 - PEAK FORWARD SURGE CURRENT

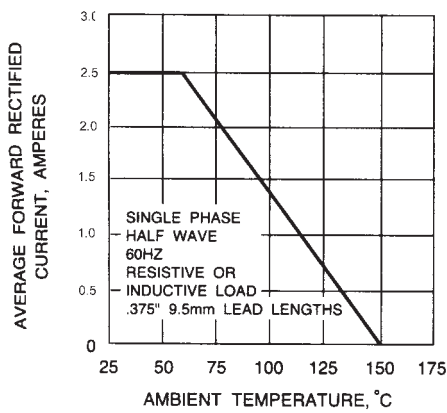


Fig. 3 - FORWARD CURRENT DERATING CURVE

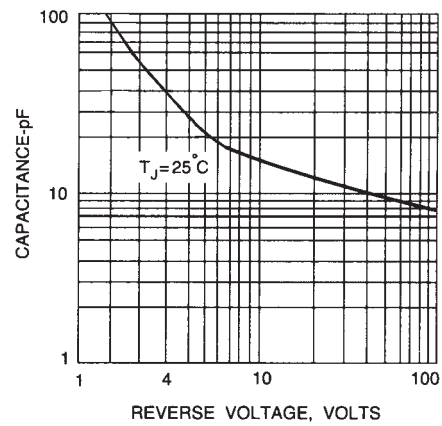


Fig. 4 - TYPICAL JUNCTION CAPACITANCE