



Micro Commercial Components
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RL101GP THRU RL107GP

1.0 Amp Standard Recovery Rectifier 50-1000 Volts

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame Retardant Epoxy Molding Compound
- Glass passivated junction version of RL101G thru RL107G
- 1.0 Ampere operation at $T_A=75^\circ\text{C}$ with no thermal runaway

Maximum Ratings

- Operating Temperature: -55°C to $+150^\circ\text{C}$
- Storage Temperature: -55°C to $+150^\circ\text{C}$
- Maximum Thermal Resistance; 50°C/W Junction To Lead

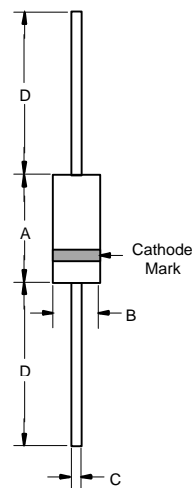
| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| RL101GP | --- | 50V | 35V | 50V |
| RL102GP | --- | 100V | 70V | 100V |
| RL103GP | --- | 200V | 140V | 200V |
| RL104GP | --- | 400V | 280V | 400V |
| RL105GP | --- | 600V | 420V | 600V |
| RL106GP | --- | 800V | 560V | 800V |
| RL107GP | --- | 1000V | 700V | 1000V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|---------------|---|
| Average Forward Current | $I_{F(AV)}$ | 1.0A | $T_A=75^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 30A | 8.3mS Sina Half |
| Maximum Instantaneous Forward Voltage | V_F | 1.10V | $I_F=1.0A; T_A=25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5.0uA 50uA | $T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$ |
| Typical Junction Capacitance | C_J | 15pF | Measured at 1.0MHz; $V_R=4.0V$ |

*Pulse test: Pulse width 300 sec, Duty cycle 2%

A-405



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|-------|-------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | 0.166 | 0.205 | 4.10 | 5.20 | |
| B | 0.080 | 0.107 | 2.00 | 2.70 | |
| C | | 0.024 | | 0.60 | |
| D | 1.000 | | 25.40 | | |

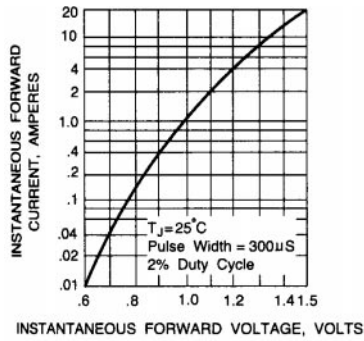


Fig. 1 - TYPICAL FORWARD CHARACTERISTICS

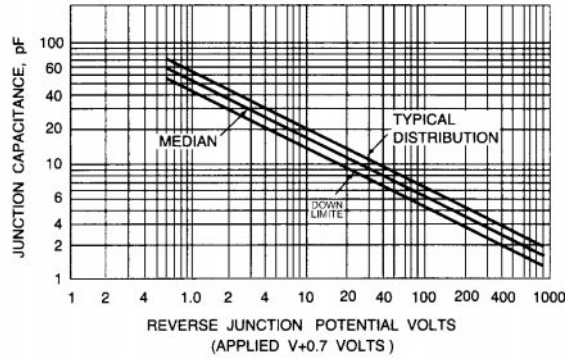


Fig. 2 - JUNCTION CAPACITANCE

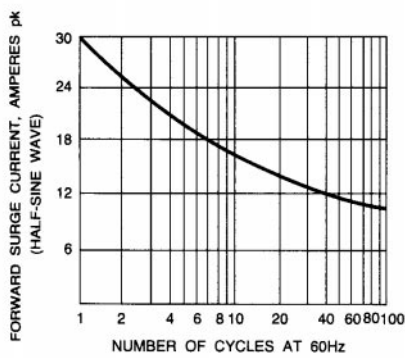


Fig. 3 - PEAK FORWARD SURGE CURRENT

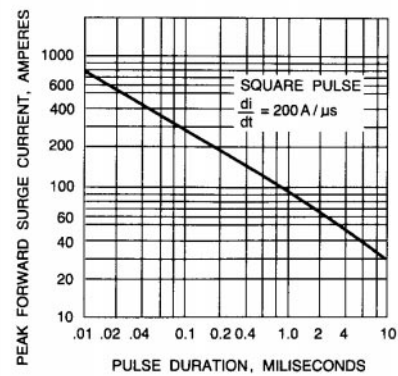


Fig. 4 - PEAK FORWARD SURGE CURRENT

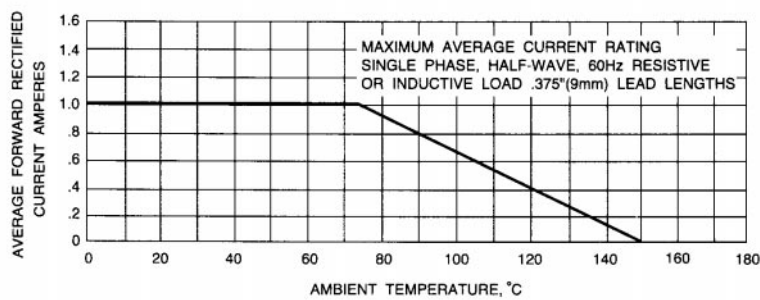


Fig. 5 - FORWARD DERATING CURVE