

## Features

- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- Glass Passivated Junction
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)

## Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 50°C/W Junction to Ambient

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|----------------------------------------|---------------------|-----------------------------|
| RL201GP         | RL201GP        | 50V                                    | 35V                 | 50V                         |
| RL202GP         | RL202GP        | 100V                                   | 70V                 | 100V                        |
| RL203GP         | RL203GP        | 200V                                   | 140V                | 200V                        |
| RL204GP         | RL204GP        | 400V                                   | 280V                | 400V                        |
| RL205GP         | RL205GP        | 600V                                   | 420V                | 600V                        |
| RL206GP         | RL206GP        | 800V                                   | 560V                | 800V                        |
| RL207GP         | RL207GP        | 1000V                                  | 700V                | 1000V                       |

## Electrical Characteristics @ 25°C Unless Otherwise Specified

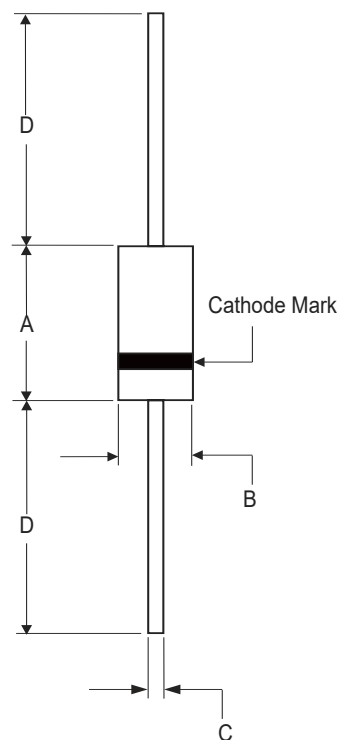
|                                                         |             |                                       |                                                     |
|---------------------------------------------------------|-------------|---------------------------------------|-----------------------------------------------------|
| Average Forward Current                                 | $I_{F(AV)}$ | 2A                                    | $T_A=75^\circ\text{C}$                              |
| Peak Forward Surge Current                              | $I_{FSM}$   | 70A                                   | 8.3ms, Half Sine                                    |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 1.0V                                  | $I_{FM}=2.0A$ ;<br>$T_J=25^\circ\text{C}^*$         |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 5.0 $\mu\text{A}$<br>50 $\mu\text{A}$ | $T_J=25^\circ\text{C}$ ;<br>$T_J=100^\circ\text{C}$ |
| Typical Junction Capacitance                            | $C_J$       | 20pF                                  | Measured at 1.0MHz, $V_R=4.0V$                      |

\*Pulse Test: Pulse Width 300 $\mu\text{sec}$ , Duty Cycle 1%

Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

# 2 Amp Rectifier 50 to 1000 Volts

## DO-15



| DIMENSIONS |        |       |       |       |      |
|------------|--------|-------|-------|-------|------|
| DIM        | INCHES |       | MM    |       | NOTE |
|            | MIN    | MAX   | MIN   | MAX   |      |
| A          | 0.230  | 0.300 | 5.80  | 7.60  |      |
| B          | 0.104  | 0.140 | 2.60  | 3.60  |      |
| C          | 0.026  | 0.035 | 0.70  | 0.90  |      |
| D          | 1.000  | ----- | 25.40 | ----- |      |

## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

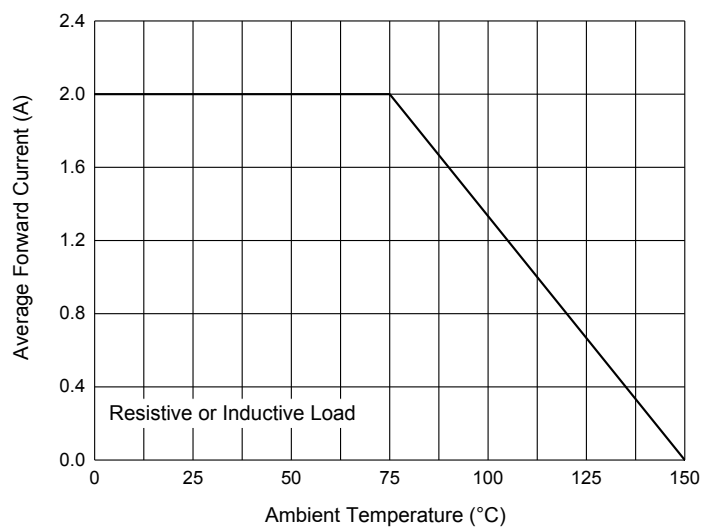


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

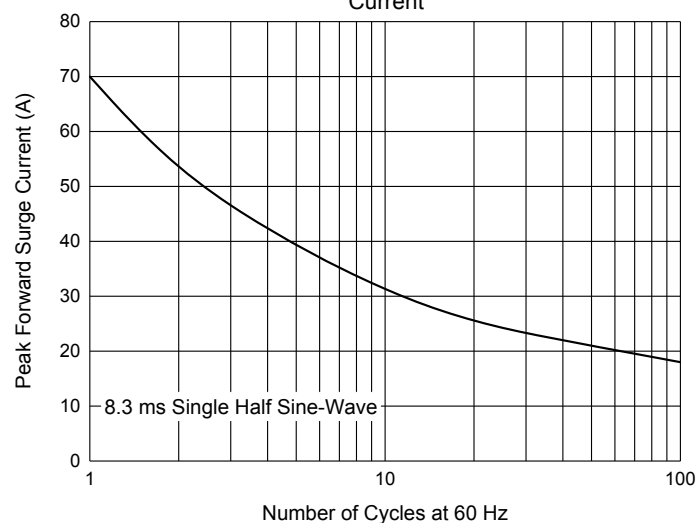


Fig. 3 - Typical Instantaneous Forward Characteristics

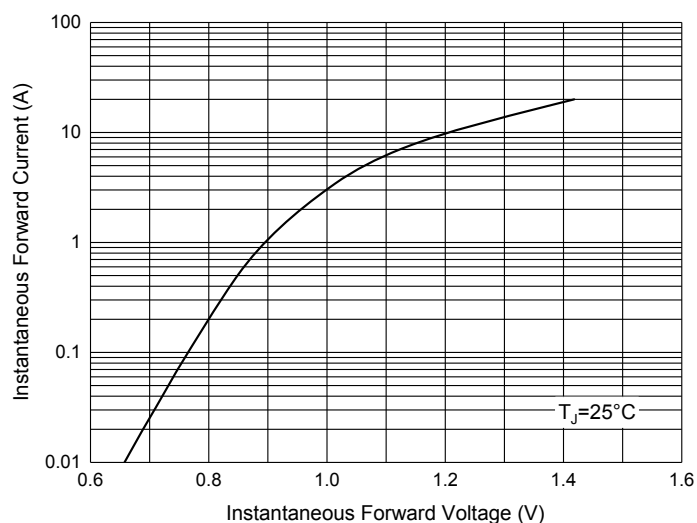
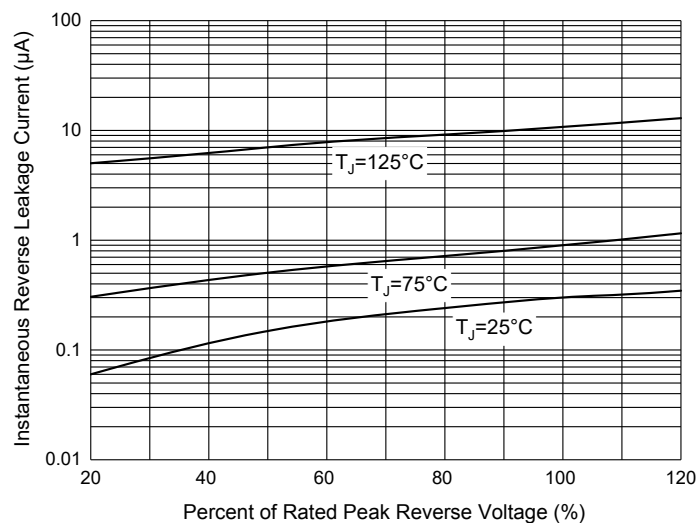


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

| Device           | Packing                       |
|------------------|-------------------------------|
| (Part Number)-TP | Tape&Reel: 4Kpcs/Reel         |
| (Part Number)-AP | Ammo Packing: 3Kpcs/Ammo Box  |
| (Part Number)-BP | Bulk:500pcs/Box,25Kpcs/Carton |

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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|                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| <a href="#"><u>RL201GP-TP</u></a> | <a href="#"><u>RL202GP-TP</u></a> | <a href="#"><u>RL203GP-TP</u></a> | <a href="#"><u>RL204GP-TP</u></a> | <a href="#"><u>RL205GP-TP</u></a> | <a href="#"><u>RL206GP-TP</u></a> | <a href="#"><u>RL207GP-TP</u></a> | <a href="#"><u>RL201GP-AP</u></a> |
| <a href="#"><u>RL201GP-BP</u></a> | <a href="#"><u>RL202GP-AP</u></a> | <a href="#"><u>RL202GP-BP</u></a> | <a href="#"><u>RL203GP-AP</u></a> | <a href="#"><u>RL203GP-BP</u></a> | <a href="#"><u>RL204GP-AP</u></a> | <a href="#"><u>RL204GP-BP</u></a> | <a href="#"><u>RL205GP-AP</u></a> |
| <a href="#"><u>RL205GP-BP</u></a> | <a href="#"><u>RL206GP-AP</u></a> | <a href="#"><u>RL206GP-BP</u></a> | <a href="#"><u>RL207GP-AP</u></a> | <a href="#"><u>RL207GP-BP</u></a> |                                   |                                   |                                   |