



**E502650**

## Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Ideal For Printed Circuit Board
- Reliable Low Cost Construction Utilizing Molded Plastic Technique
- High Surge Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- High Case Dielectric Strength of 1500 VRMS

## Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance(Note 2): 5.0°C/W Junction to Case
- Thermal Resistance(Note 2): 2.4°C/W Junction to Lead

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|----------------------------------------|---------------------|-----------------------------|
| RS401GL         | RS401GL        | 50V                                    | 35V                 | 50V                         |
| RS402GL         | RS402GL        | 100V                                   | 70V                 | 100V                        |
| RS403GL         | RS403GL        | 200V                                   | 140V                | 200V                        |
| RS404GL         | RS404GL        | 400V                                   | 280V                | 400V                        |
| RS405GL         | RS405GL        | 600V                                   | 420V                | 600V                        |
| RS406GL         | RS406GL        | 800V                                   | 560V                | 800V                        |
| RS407GL         | RS407GL        | 1000V                                  | 700V                | 1000V                       |

## Electrical Characteristics @ 25°C Unless Otherwise Specified

|                                                         |             |                                      |                                                       |
|---------------------------------------------------------|-------------|--------------------------------------|-------------------------------------------------------|
| Average Forward Current                                 | $I_{F(AV)}$ | 4.0A                                 | $T_A = 50^\circ\text{C}$                              |
| Peak Forward Surge Current                              | $I_{FSM}$   | 200A                                 | 8.3ms, Half Sine                                      |
| Maximum Forward Voltage Drop Per Element                | $V_F$       | 1.1V                                 | $I_{FM} = 4.0A$<br>$T_J = 25^\circ\text{C}$ (Note 3)  |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | $I_R$       | 5 $\mu\text{A}$<br>100 $\mu\text{A}$ | $T_J = 25^\circ\text{C}$<br>$T_J = 125^\circ\text{C}$ |

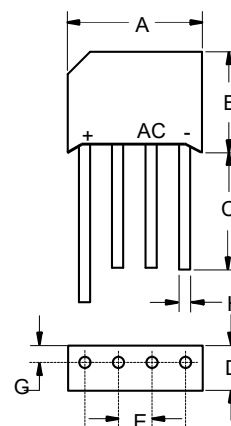
Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

2. Unit mount on P.C.B. 0.6" x 0.6" (16mmx16mm) Copper pads

3. Pulse Test: Pulse Width 300usec, Duty Cycle 1%

# 4 Amp Single Phase Glass Passivated Bridge Rectifier 50 to 1000 Volts

## RS-4L



| DIMENSIONS |        |       |       |       |      |
|------------|--------|-------|-------|-------|------|
| DIM        | INCHES |       | MM    |       | NOTE |
|            | MIN    | MAX   | MIN   | MAX   |      |
| A          | 0.728  | 0.768 | 18.50 | 19.50 |      |
| B          | 0.600  | 0.640 | 15.20 | 16.30 |      |
| C          | 0.630  | ---   | 16.00 | ---   |      |
| D          | 0.217  | 0.256 | 5.50  | 6.50  |      |
| E          | 0.180  | 0.220 | 4.60  | 5.60  |      |
| G          | ---    | 0.083 | ---   | 2.10  |      |
| H          | 0.048  | 0.052 | 1.20  | 1.30  |      |

## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

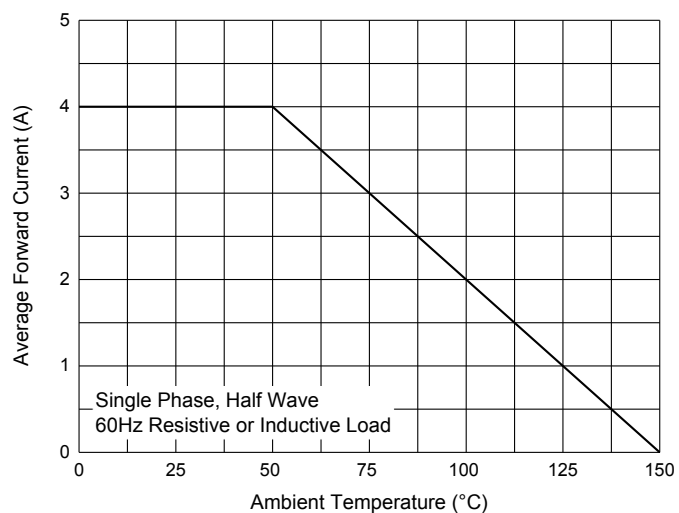


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

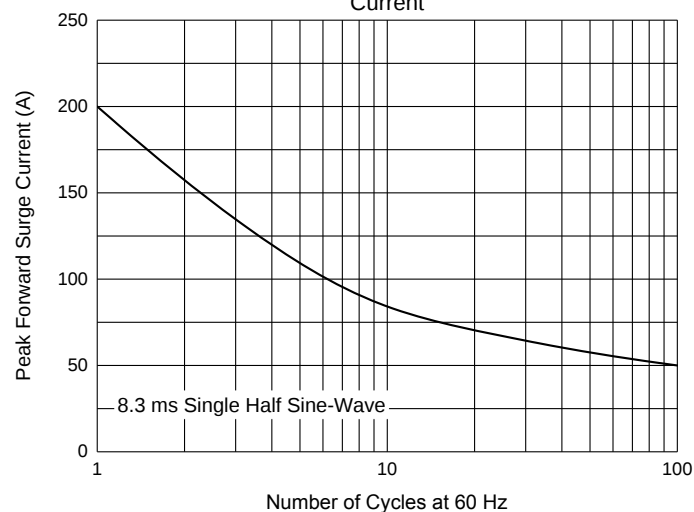


Fig. 3 - Typical Reverse Leakage Characteristics

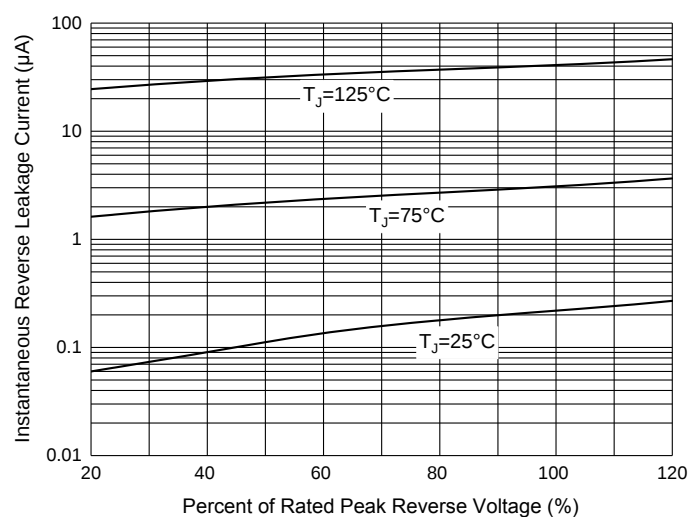
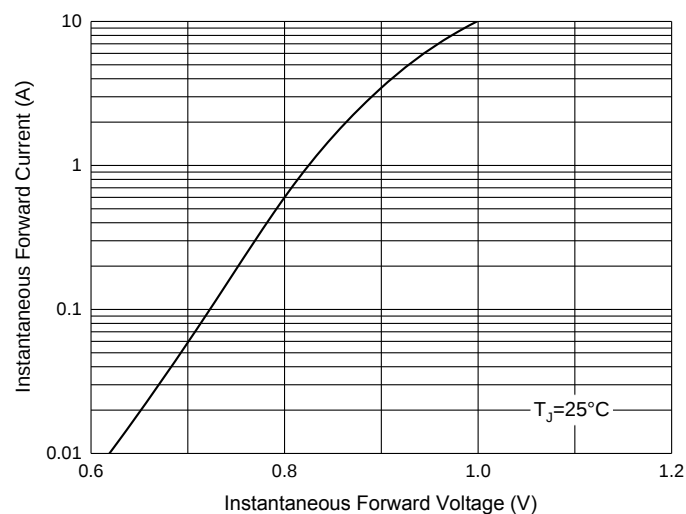


Fig. 4 - Typical Instantaneous Forward Characteristics



## Ordering Information

| Device         | Packing     |
|----------------|-------------|
| Part Number-BP | Bulk;2K/Ctn |

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

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