

**Micro Commercial Components** 



**Micro Commercial Components** 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

# THRU **RS407GL**

## 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
- UL Recognized File # E165989
- 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: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

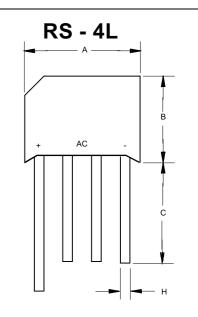
| MCC     | Device  | Maximum Maximum     |      | Maximum  |
|---------|---------|---------------------|------|----------|
| Catalog | Marking | Recurrent RMS       |      | DC       |
| Number  |         | Peak Reverse Voltag |      | Blocking |
|         |         | Voltage             | _    | Voltage  |
| 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    |

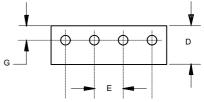
### Electrical Characteristics @ 25°C Unless Otherwise Specified

| Average Forward<br>Current                                       | I <sub>F(AV)</sub>                     | 4.0A               | T <sub>A</sub> = 50°C                                     |
|--|--|--------------------|---|
| Peak Forward Surge<br>Current                                    | I <sub>FSM</sub>                       | 200A               | 8.3ms, half sine  |
| Maximum Forward<br>Voltage Drop Per<br>Element                   | V <sub>F</sub>                         | 1.1V               | I <sub>FM</sub> = 4.0A;<br>T <sub>A</sub> = 25°C (Note 2) |
| Maximum DC<br>Reverse Current At<br>Rated DC Blocking<br>Voltage | I <sub>R</sub>                         | 5μΑ<br>100μΑ       | T <sub>A</sub> = 25°C<br>T <sub>A</sub> = 125°C           |
| Typical Thermal<br>Resistance(Note 3)                            | R <sub>thJL</sub><br>R <sub>thJC</sub> | 2.4°C/W<br>5.0°C/W |   |



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





| DIMENSIONS |        |      |       |       |      |  |
|------------|--------|------|-------|-------|------|--|
|            | INCHES |      | ММ    |       |      |  |
| DIM        | MIN    | MAX  | MIN   | MAX   | NOTE |  |
| А          | .728   | .768 | 18.50 | 19.50 |      |  |
| В          | .600   | .640 | 15.20 | 16.30 |      |  |
| С          | .630   |      | 16.00 |       |      |  |
| D          | .217   | .256 | 5.50  | 6.50  |      |  |
| E          | .180   | .220 | 4.60  | 5.60  |      |  |
| G          |        | .083 |       | 2.10  |      |  |
| Н          | .048   | .052 | 1.20  | 1.30  |      |  |

1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7 Notes: 2. Pulse Test: Pulse Width 300usec, Duty Cycle 1%

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

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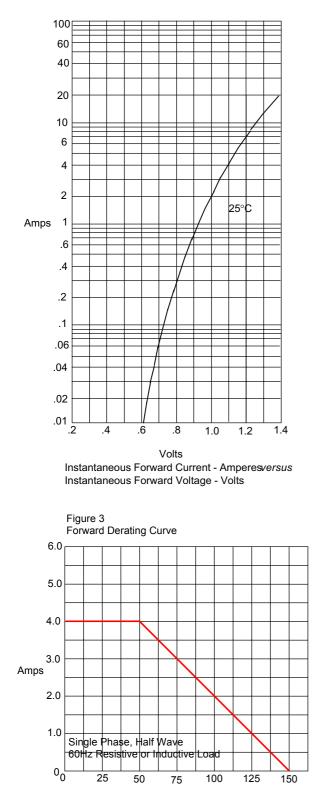
#### **Revision:** G



## RS401GL thru RS407GL

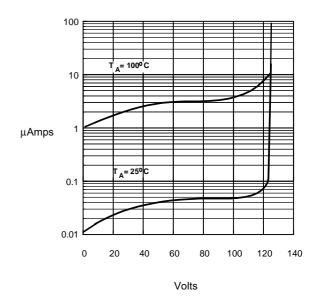
Figure 1

Typical Forward Characteristics



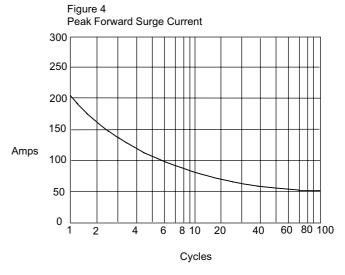
Average Forward Rectified Current - Amperes versus Case Temperature -  $^\circ \mathrm{C}$ 

Figure 2 Typical Reverse Characteristics



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Instantaneous Reverse Leakage Current - MicroAmperesversus Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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## **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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