



Features

- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Low Leakage And Low Forward Voltage
- Any Mounting Position
- Silver Plated Copper Leads

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 8.6°C/W Junction to Ambient
- Typical Thermal Resistance: 3.1°C/W Junction to Case

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| RS601 | RS601 | 50V | 35V | 50V |
| RS602 | RS602 | 100V | 70V | 100V |
| RS603 | RS603 | 200V | 140V | 200V |
| RS604 | RS604 | 400V | 280V | 400V |
| RS605 | RS605 | 600V | 420V | 600V |
| RS606 | RS606 | 800V | 560V | 800V |
| RS607 | RS607 | 1000V | 700V | 1000V |

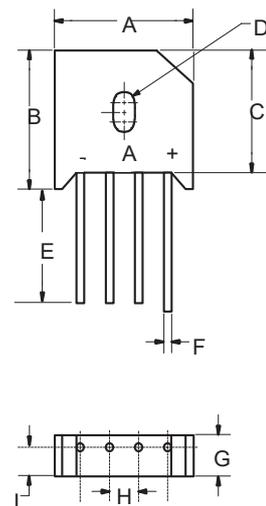
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|-------------|---|
| Average Forward Current | $I_{F(AV)}$ | 6.0A | $T_A = 65^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 200A | 8.3ms, Half Sine |
| Maximum Instantaneous Forward Voltage | V_F | 1.1V | $I_{FM} = 3.0A;$ $T_J = 25^\circ\text{C}$ |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I_R | 10µA 1mA | $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$ |

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

**6 Amp
Single Phase
Bridge Rectifier
50 to 1000 Volts**

RS-6



| DIM | DIMENSIONS | | | | NOTE |
|-----|---------------|-------|--------------|-------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | 0.895 | 0.935 | 22.70 | 23.70 | |
| B | --- | 0.760 | --- | 19.30 | |
| C | 0.660 | 0.728 | 16.80 | 18.50 | |
| D | 0.150 X 0.23L | | 3.80 X 5.57L | | HOLE |
| E | 0.787 | --- | 20.00 | --- | |
| F | 0.048 | 0.052 | 1.20 | 1.30 | |
| G | 0.260 | 0.280 | 6.60 | 7.10 | |
| H | 0.180 | 0.220 | 4.60 | 5.60 | |
| I | 0.181 | 0.205 | 4.60 | 5.20 | |

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

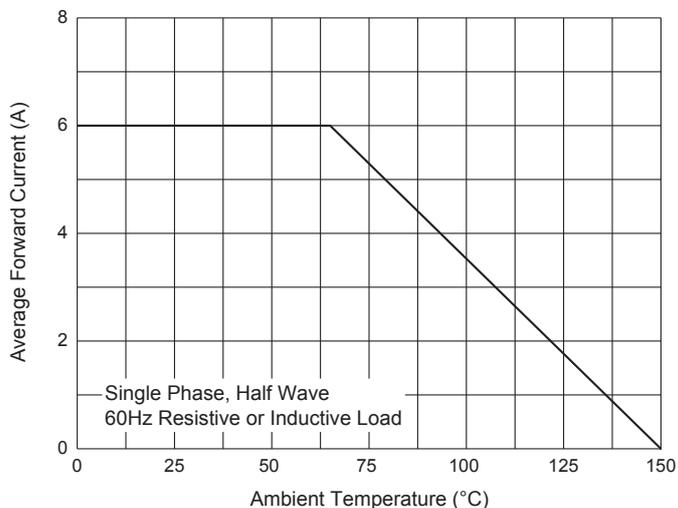


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

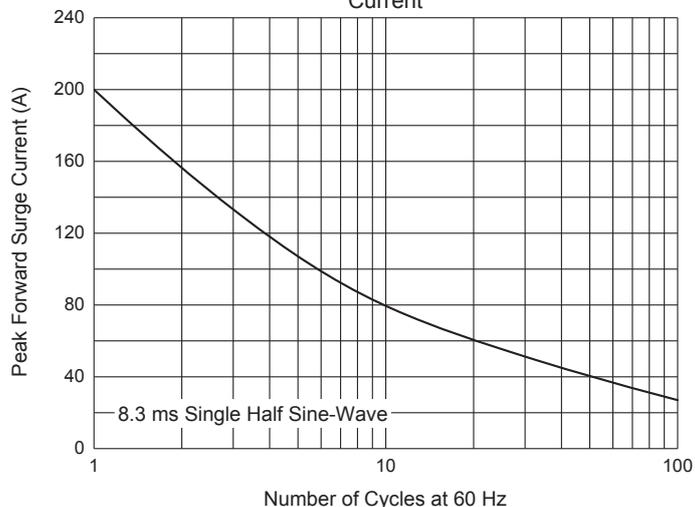


Fig. 3 - Typical Instantaneous Forward Characteristics

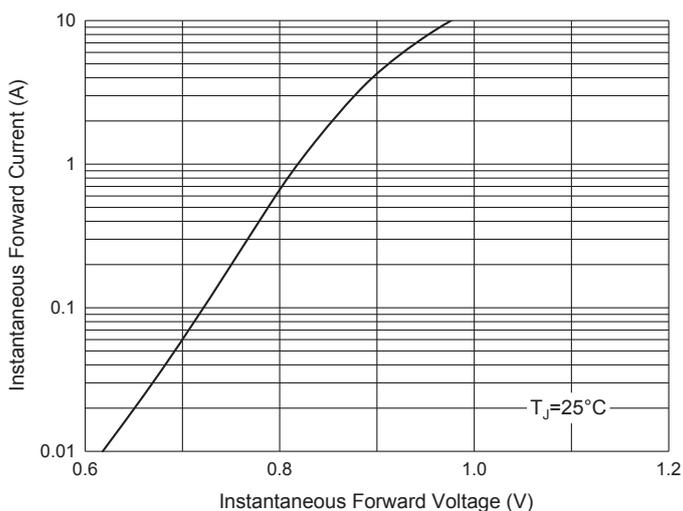
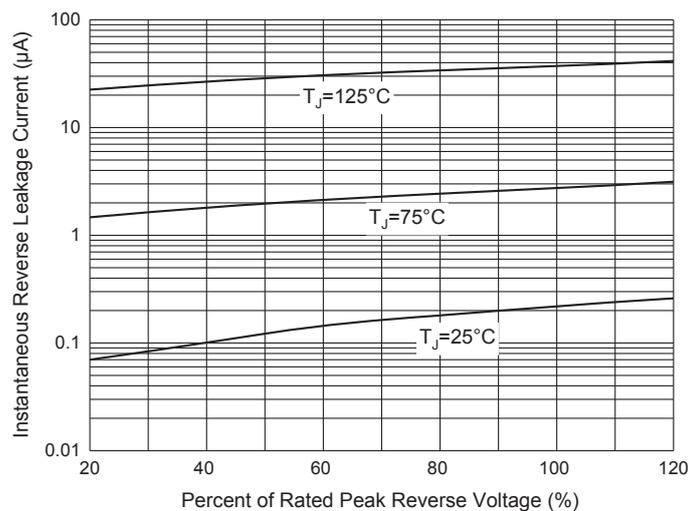


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

| Device | Packing |
|----------------|---------------------------------|
| Part Number-BP | Bulk: 400Pcs/Box,2.4KPcs/Carton |

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