



E502650

Features

- Low Forward Voltage and Any Mounting Position
- Surge Overload Rating Of 150 Amps
- Silver Plated Copper Leads
- 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)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 25°C/W Junction to Ambient

Mechanical Data

- Mounting Torque: 4.5in-lbs Maximum
- Mounting Hole: #6 Screw

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| PB605 | PB605 | 50V | 35V | 50V |
| PB61 | PB61 | 100V | 70V | 100V |
| PB62 | PB62 | 200V | 140V | 200V |
| PB64 | PB64 | 400V | 280V | 400V |
| PB66 | PB66 | 600V | 420V | 600V |
| PB68 | PB68 | 800V | 560V | 800V |
| PB610 | PB610 | 1000V | 700V | 1000V |

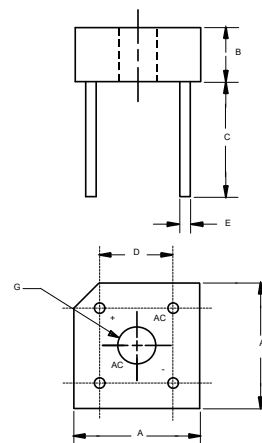
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|-------------|---|
| Average Forward Current | $I_{F(AV)}$ | 6.0A | $T_A = 50^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 150A | 8.3ms, Half Sine |
| Maximum Forward Voltage Drop Per Element | V_F | 1.0V | $I_F = 3.0A$ $T_J = 25^\circ\text{C}$ |
| 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 7

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

PB-6



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|-------|-------|--------|
| | INCHES | | MM | | |
| A | MIN | MAX | MIN | MAX | 2PL |
| B | 0.230 | 0.270 | 5.84 | 6.86 | |
| C | 0.752 | --- | 19.10 | --- | |
| D | 0.405 | 0.445 | 10.29 | 11.31 | 2PL |
| E | 0.038 | 0.042 | 0.97 | 1.07 | 4PL/TY |
| G | 0.145 | --- | 3.70 | --- | Φ |

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

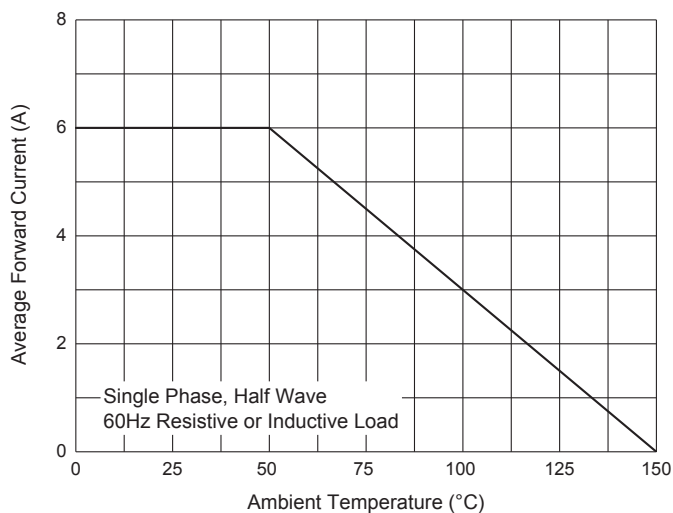


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

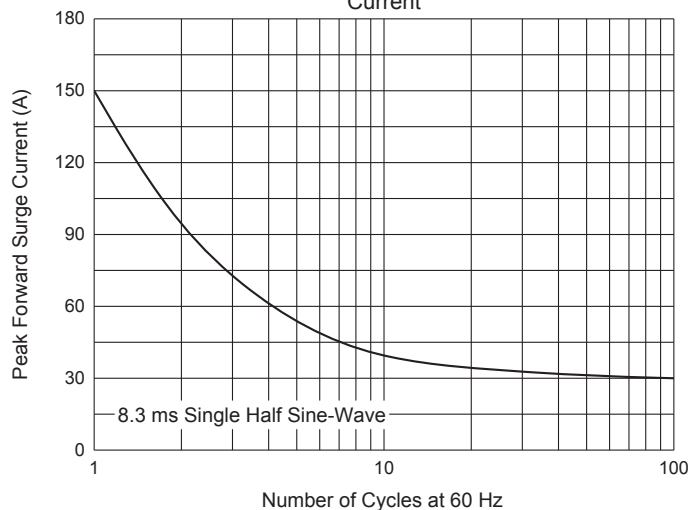


Fig. 3 - Typical Instantaneous Forward Characteristics

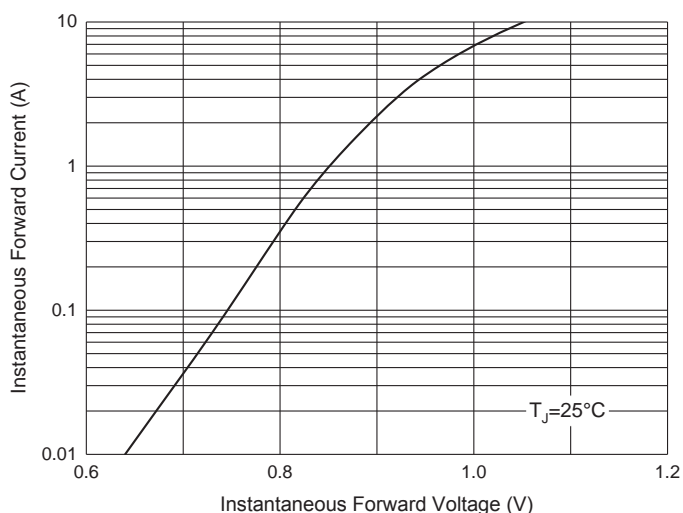
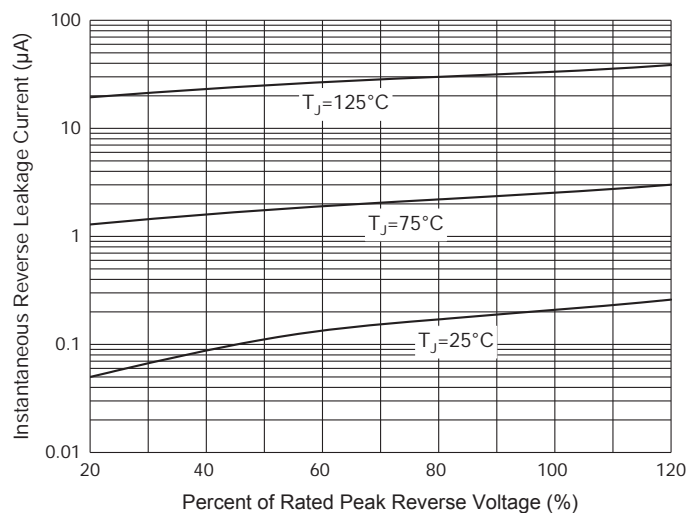


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

| Device | Packing |
|----------------|----------------------------|
| Part Number-BP | Bulk; 200Pcs/Box, 1.6k/Ctn |

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