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|  | E502650 |
|---|----------------|

Features

- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Any Mounting Position
- With Heat Sink On Top

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 3.0°C/W Junction To Case With Heatsink

Mechanical Data

- Mounting Torque: 8.0 in-lbs Maximum
- Mounting Hole For #10 Screw

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| GBPC15005 | GBPC15005 | 50V | 35V | 50V |
| GBPC1501 | GBPC1501 | 100V | 70V | 100V |
| GBPC1502 | GBPC1502 | 200V | 140V | 200V |
| GBPC1504 | GBPC1504 | 400V | 280V | 400V |
| GBPC1506 | GBPC1506 | 600V | 420V | 600V |
| GBPC1508 | GBPC1508 | 800V | 560V | 800V |
| GBPC1510 | GBPC1510 | 1000V | 700V | 1000V |

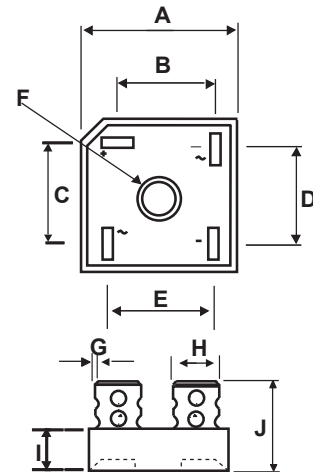
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|--------------------------------------|--|
| Average Forward Current | $I_{F(AV)}$ | 15A | $T_C = 60^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 250A | 8.3ms, Half Sine |
| Maximum Forward Voltage Drop Per Element | V_F | 1.1V | $I_{FM} = 7.5\text{A Per Element}; T_J = 25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5 μA 500 μA | $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$ |

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

15 Amp Glass Passivated Single Phase Bridge Rectifier 50 to 1000 Volts

GBPC



DIMENSIONS

| DIM | INCHES | | MM | | NOTE |
|-----|--------|---------|-------|---------|--------|
| | MIN | MAX | MIN | MAX | |
| A | 1.114 | 1.134 | 28.30 | 28.80 | |
| B | 0.634 | 0.673 | 16.10 | 17.10 | |
| C | 0.634 | 0.673 | 16.10 | 17.10 | |
| D | 0.543 | 0.583 | 13.80 | 14.80 | |
| E | 0.693 | 0.732 | 17.60 | 18.60 | |
| F | 0.197 | Nominal | 5.00 | Nominal | ϕ |
| G | 0.030 | 0.034 | 0.76 | 0.86 | |
| H | 0.244 | 0.256 | 6.20 | 6.50 | |
| I | 0.291 | 0.335 | 7.40 | 8.50 | |
| J | 0.740 | 0.850 | 18.80 | 21.60 | |

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

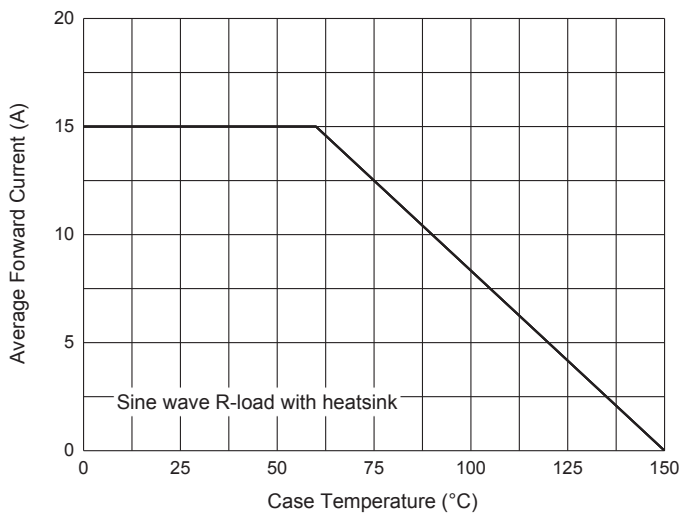


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

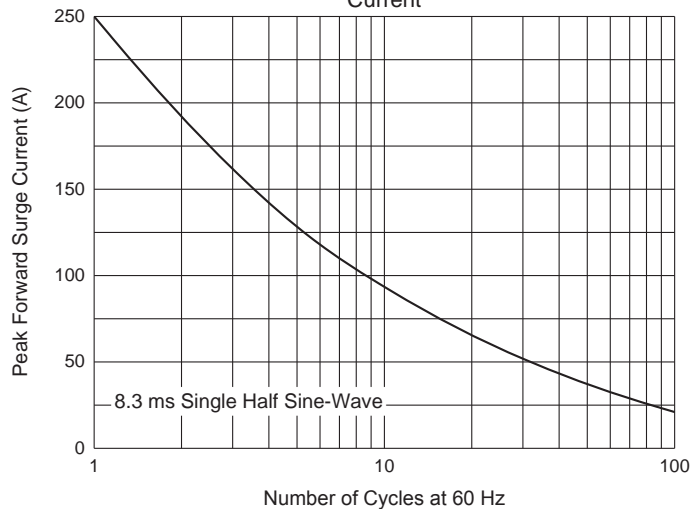


Fig. 3 - Typical Instantaneous Forward Characteristics

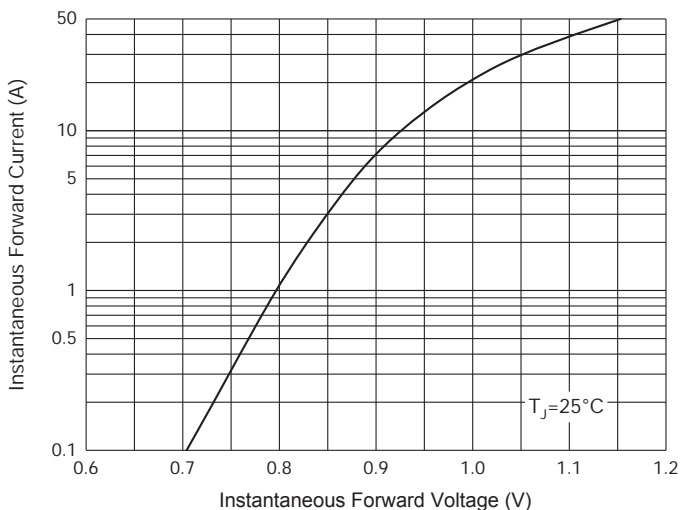
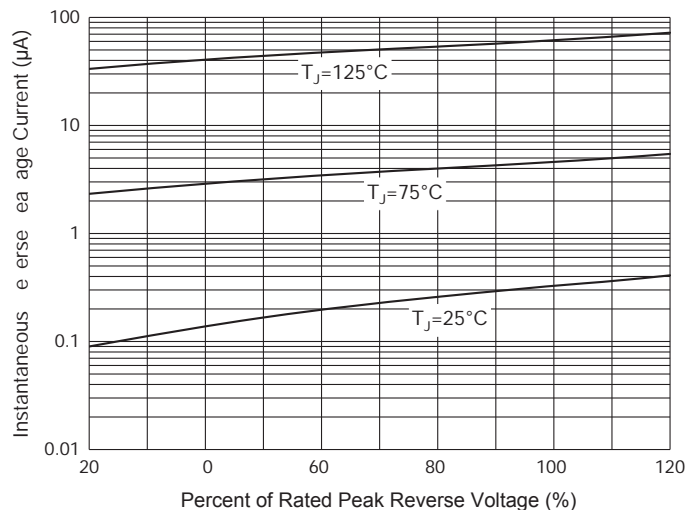


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

| Device | Packing |
|----------------|------------------------------|
| Part Number-BP | Bulk:50pcs/Box,400pcs/Carton |

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