



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: 1.35°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 |
|-----------------|----------------|--|---------------------|-----------------------------|
| GBPC25005W | GBPC25005W | 50V | 35V | 50V |
| GBPC2501W | GBPC2501W | 100V | 70V | 100V |
| GBPC2502W | GBPC2502W | 200V | 140V | 200V |
| GBPC2504W | GBPC2504W | 400V | 280V | 400V |
| GBPC2506W | GBPC2506W | 600V | 420V | 600V |
| GBPC2508W | GBPC2508W | 800V | 560V | 800V |
| GBPC2510W | GBPC2510W | 1000V | 700V | 1000V |

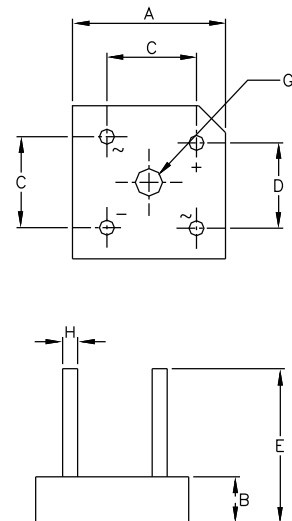
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|--------------|---|
| Average Forward Current | $I_{F(AV)}$ | 25A | $T_C = 60^\circ C$ |
| Peak Forward Surge Current | I_{FSM} | 300A | 8.3ms, Half Sine |
| Maximum Forward Voltage Drop Per Element | V_F | 1.1V | $I_{FM} = 12.5A$ Per Element; $T_J = 25^\circ C$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5µA 500µA | $T_J = 25^\circ C$ $T_J = 125^\circ C$ |

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

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

GBPC-W



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|-------|-------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | 1.110 | 1.142 | 28.20 | 29.00 | |
| B | 0.425 | 0.445 | 10.80 | 11.30 | |
| C | 0.673 | 0.752 | 17.10 | 19.10 | |
| D | 0.410 | 0.490 | 10.40 | 12.40 | |
| E | 1.180 | --- | 30.00 | --- | |
| H | 0.038 | 0.042 | 0.97 | 1.07 | |
| G | 0.200 | 0.220 | 5.08 | 5.59 | |

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

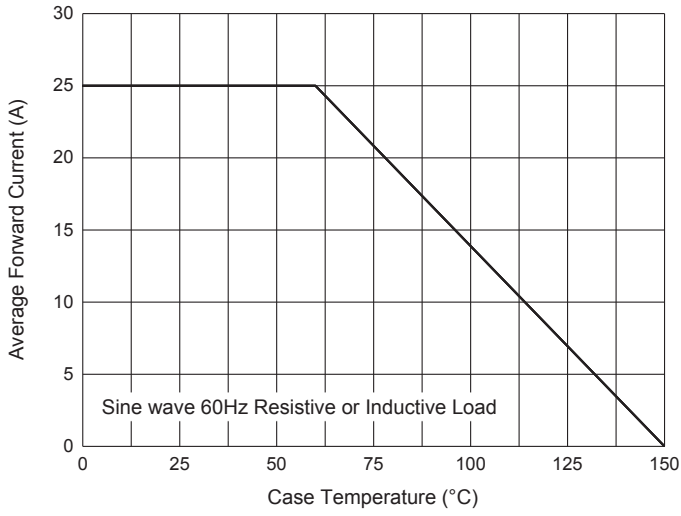


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

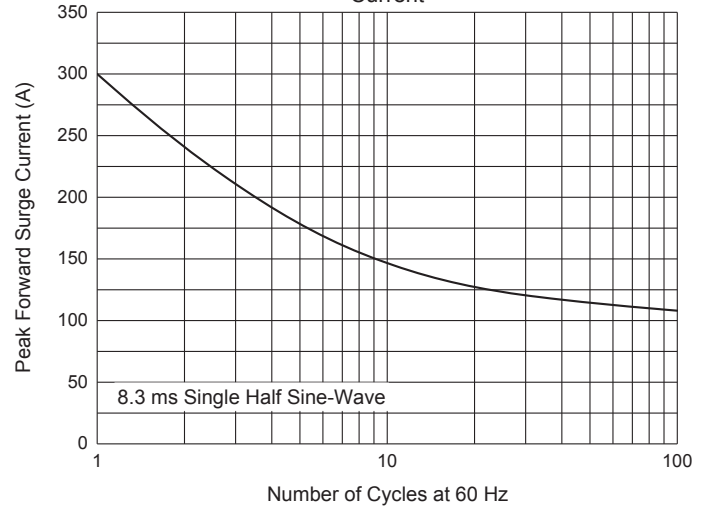


Fig. 3 - Typical Instantaneous Forward Characteristics

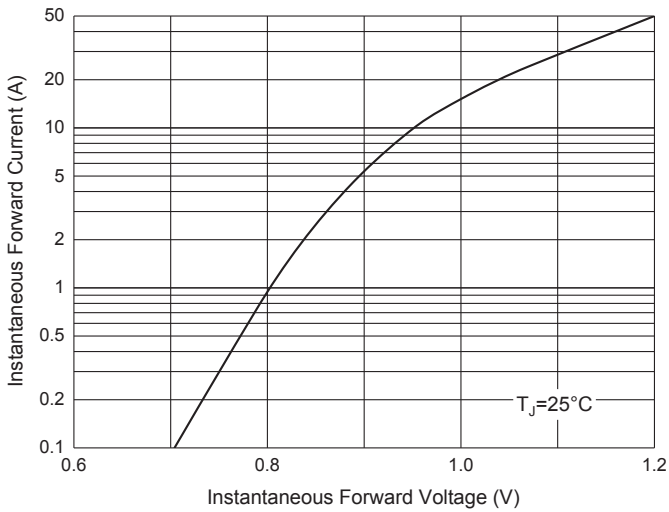
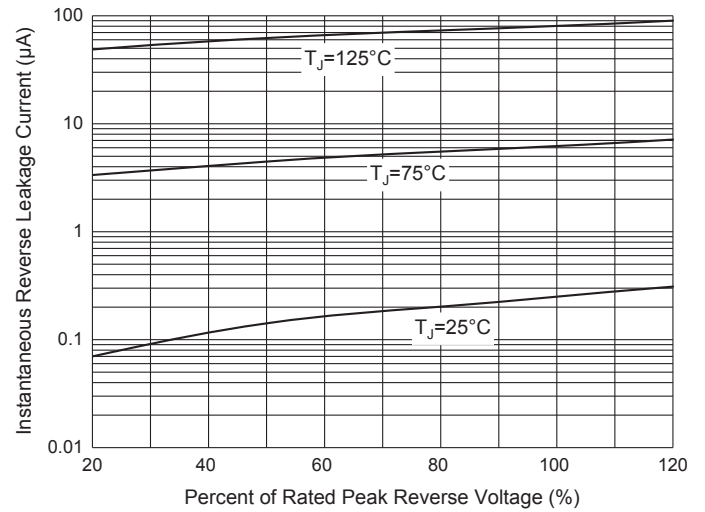


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

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

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