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

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- High Surge Overload Rating

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 2°C/W Junction to Case (Note 2)
- Thermal Resistance: 25°C/W Junction to Ambient

Mechanical Data

- Mounting Torque: 5in-lbs

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| GBU6MS | GBU6MS | 1000V | 700V | 1000V |

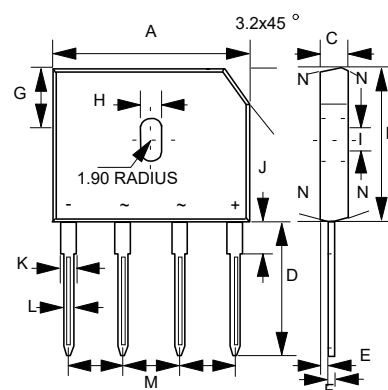
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|--------------------------------------|--|
| Average Forward Current | $I_{F(AV)}$ | 6A 2.8A | $T_C = 125^\circ\text{C}$, With Heatsink $T_A = 25^\circ\text{C}$, Without Heatsink |
| Peak Forward Surge Current | I_{FSM} | 150A | 8.3ms, Half Sine |
| Maximum Forward Voltage Drop Per Element | V_F | 1.0V | $I_{FM} = 3A$ Per Diode; $T_J = 25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5 μA 100 μA | $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$ |
| Dielectric Strength | V_{ISO} | 2.5KV | Terminals to Case, AC 1 Minute |
| Rating for Fusing | I^2t | 93.4 A ² s | $t < 8.3\text{ms}$ |
| Typical Junction Capacitance | C_J | 42 pF | Measured at 1.0MHz, $V_R = 4.0V$ |

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a
2. Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

6 Amp Single Phase Glass Passivated Bridge Rectifier 1000 Volts

GBU



| DIM | DIMENSIONS | | | | NOTE |
|-----|--------------|-------|-------|-------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | 0.860 | 0.880 | 21.80 | 22.30 | |
| B | 0.720 | 0.740 | 18.30 | 18.80 | |
| C | 0.130 | 0.142 | 3.30 | 3.60 | |
| D | 0.690 | 0.717 | 17.50 | 18.20 | |
| E | 0.030 | 0.039 | 0.76 | 1.00 | |
| F | 0.018 | 0.024 | 0.46 | 0.60 | |
| G | 0.290 | 0.310 | 7.40 | 7.90 | |
| H | 0.140 | 0.160 | 3.50 | 4.10 | |
| I | 0.065 | 0.085 | 1.65 | 2.16 | |
| J | 0.060 | 0.096 | 1.52 | 2.45 | |
| K | 0.077 | 0.098 | 1.95 | 2.50 | |
| L | 0.040 | 0.050 | 1.02 | 1.27 | |
| M | 0.190 | 0.210 | 4.83 | 5.33 | |
| N | 7.0° TYPICAL | | | | |

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

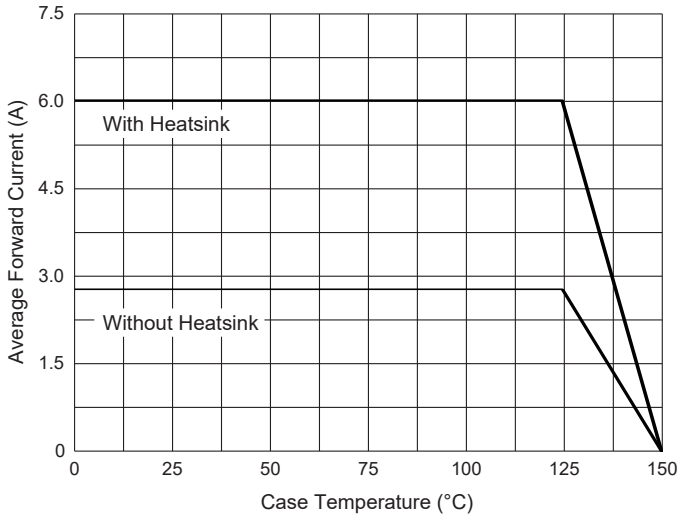


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

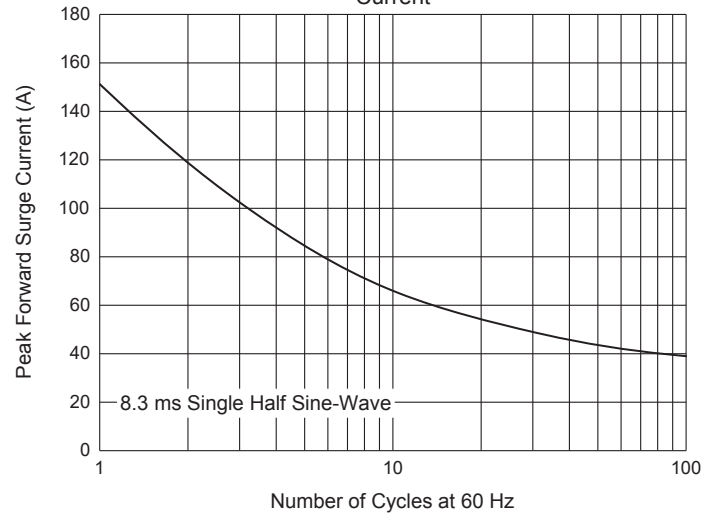


Fig. 3 - Typical Instantaneous Forward Characteristics

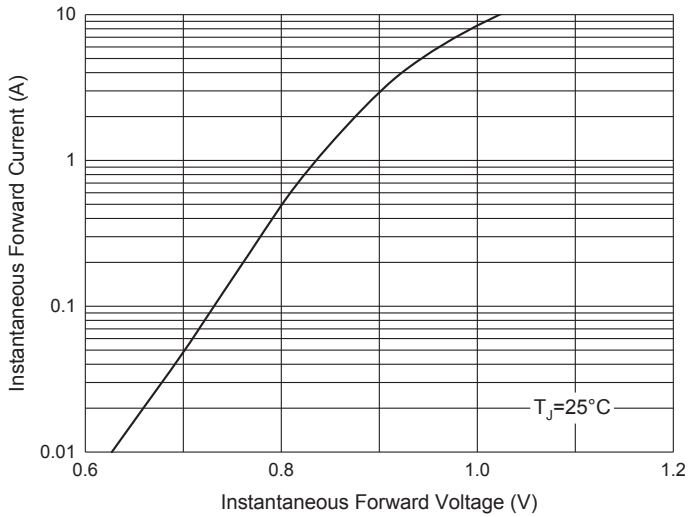
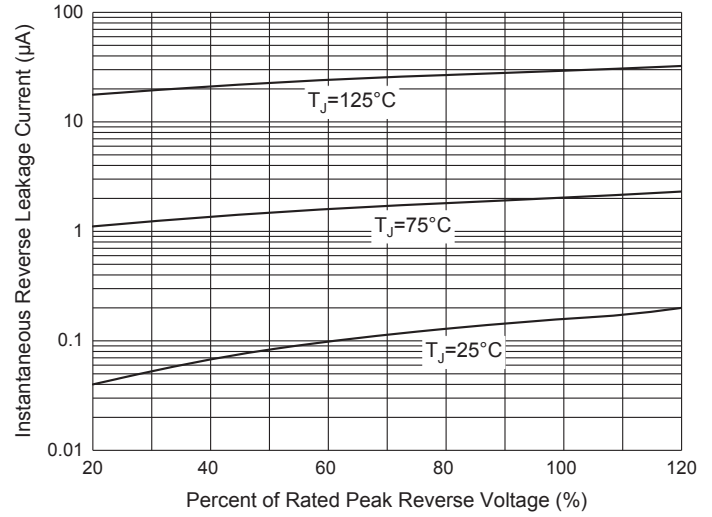


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

| Device | Packing |
|----------------|--|
| Part Number-BP | Bulk:20pcs/Tube,1Kpcs/Box,2Kpcs/Carton |

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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