

W.

E502650

Features

- High Surge Forward Current Capability
- · Glass Passivated Chip
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating

35 Amp Bridge Rectifier 800 to 1600 Volts

Maximum Ratings

- Operating Junction Temperature Range: -55 °C to +150 °C
- Storage Temperature Range: -55 °C to +150 °C
- Thermal Resistance: 0.8°C/W Junction to Case(Note 2)

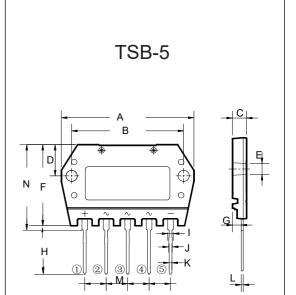
| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|-------------------|---|------------------------|-----------------------------------|
| 3GBJ3508 | 3GBJ3508 | 800V | 560V | 800V |
| 3GBJ3510 | 3GBJ3510 | 1000V | 700V | 1000V |
| 3GBJ3516 | 3GBJ3516 | 1600V | 1120V | 1600V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Average Forward Current | I _{F(AV)} | 35A | T _C = 110°C | |
|---|--------------------|---------------------|-------------------------|--|
| Peak Forward Surge Current | I _{FSM} | 400A | 8.3ms, Half Sine | |
| Maximum Instantaneous Forward Voltage | V _F | 1.1V | I _{FM} = 17.5A | |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I _R | 10μΑ | T _A = 25°C | |
| Dielectric Strength | $V_{\rm dis}$ | 2.5KV | | |
| Maximum Mounting Torque | T _{or} | 8kg*cm | Recommend torque 5kg·cm | |
| Current Squared time | l ² t | 660A ² s | t<8.3ms | |

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.



| | DIMENSIONS | | | | | |
|-------|------------|-------|-------|-------|------|--|
| DIM | INCHES | | MM | | NOTE | |
| DIIVI | MIN | MAX | MIN | MAX | NOTE | |
| Α | 1.834 | 1.874 | 46.60 | 47.60 | | |
| В | 1.555 | 1.579 | 39.50 | 40.10 | | |
| С | 0.185 | 0.209 | 4.70 | 5.30 | | |
| D | 0.433 | 0.457 | 11.00 | 11.60 | | |
| Е | 0.157 | 0.177 | 4.00 | 4.50 | | |
| F | 1.134 | 1.173 | 28.80 | 29.80 | | |
| G | 0.118 | 0.126 | 3.00 | 3.20 | | |
| Н | 0.677 | 0.701 | 17.20 | 17.80 | | |
| I | 0.075 | 0.083 | 1.90 | 2.10 | | |
| J | 0.039 | 0.047 | 1.00 | 1.20 | | |
| K | 0.035 | 0.043 | 0.90 | 1.10 | | |
| L | 0.024 | 0.031 | 0.60 | 0.80 | | |
| М | 0.296 | 0.304 | 7.52 | 7.72 | | |
| N | 1.193 | 1.232 | 30.30 | 31.30 | | |



Curve Characteristics

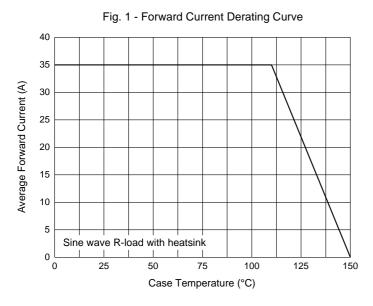
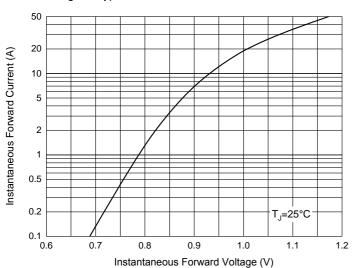


Fig. 3 - Typical Instantaneous Forward Characteristics



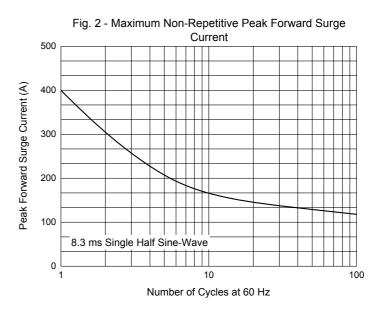
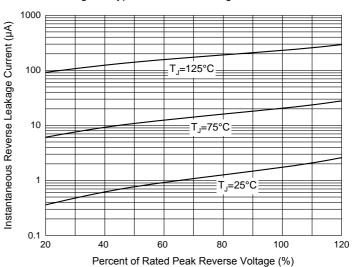


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

| Device | Packing | |
|----------------|--------------------------------------|--|
| Part Number-BP | Tube:12pcs/Tube, 120pcs/Box,960/Ctn; | |

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

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