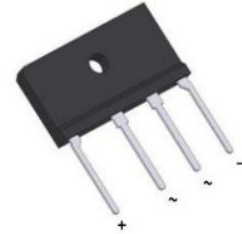


RoHS Compliant Product

FEATURES

- Thin Single In-Line Package
- Ideal for Printed Circuit Boards
- Glass Passivated Chip Junction
- Low Profile Package
- High Surge Current Capability
- High Case Dielectric Strength of 2500 V_{RMS}
- Plastic Package has Underwrites Laboratory Flammability Classification 94V-0

GBJL

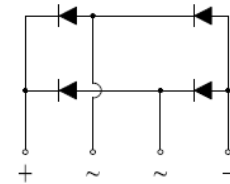


MECHANICAL DATA

- Case: GBJL; Epoxy Meets UL-94V-0 Flammability Rating
- Terminals: Matte Tin Plated Leads, Solderable Per J-STD-002 and JESD22-B102 E3 Suffix for Customer Grade, Meet JESD 201
- Polarity: As Marked on Body

ORDER INFORMATION

| Part Number | Type |
|-------------------|---------------------------------|
| GBJL25JE~GBJL25ME | Lead (Pb)-free and Halogen-free |



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

| Parameter | Symbol | Part Number | | | Unit |
|--|-----------------------------------|-------------|----------|----------|------------------|
| | | GBJL25JE | GBJL25KE | GBJL25ME | |
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V _{RMS} | 420 | 560 | 700 | |
| Maximum DC Blocking Voltage | V _{DC} | 600 | 800 | 1000 | |
| Maximum Average Forward Rectified Output Current | I _{F(AV)} | 25 | | | A |
| | | 3.6 | | | |
| Peak Forward Surge Current, 8.3ms single sine-wave superimposed on rated load (JEDEC Method) | I _{FSM} | 350 | | | A |
| Rating for Fusing (t<8.3ms) | I ² t | 511 | | | A ² S |
| Maximum Instantaneous Forward Voltage Drop Per Leg @I _F =12.5A | V _F | 0.98 | | | V |
| Maximum DC Reverse Current @Rated DC Blocking Voltage Per Leg | I _R | 5 | | | µA |
| | | 150 | | | |
| Typical Thermal Resistance Per Leg ² | R _{θJA} | 22 | | | °C/W |
| Typical Thermal Resistance Per Leg ¹ | R _{θJL} | 2.5 | | | |
| Operating Junction & Storage Temperature Range | T _J , T _{STG} | -55~150 | | | °C |

Notes:

1. Unit case mounted on Al plate heatsink.
2. Units mounted on PCB without heatsink.

RATINGS AND CHARACTERISTIC CURVES

FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

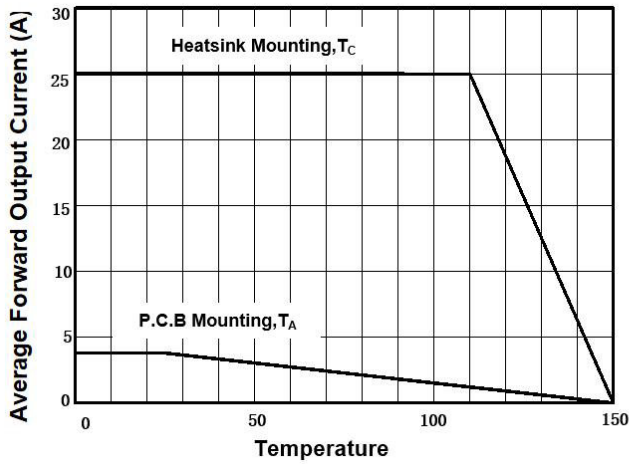


FIG.2 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

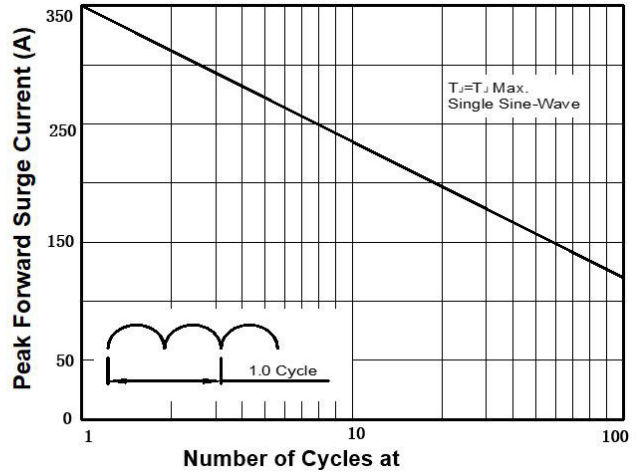


FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

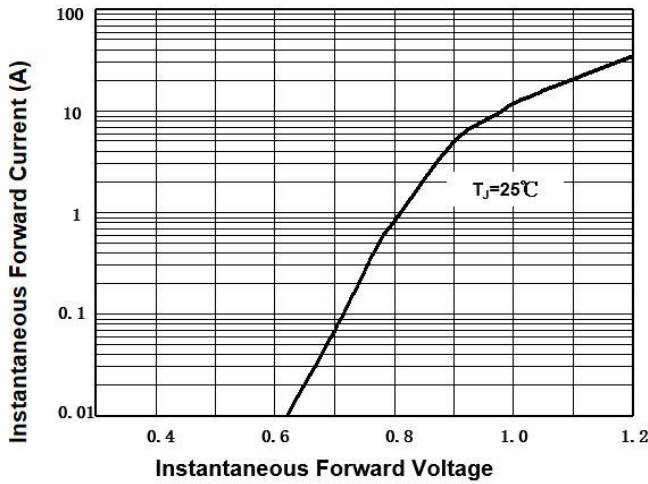
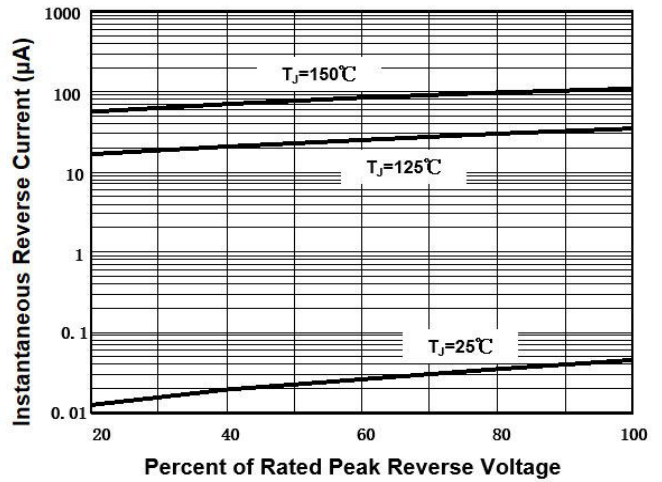
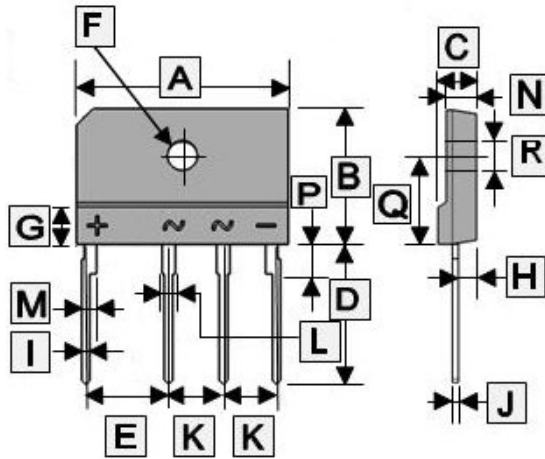


FIG.4 TYPICAL PEAK REVERSE VOLTAGE CHARACTERISTICS



PACKAGE OUTLINE DIMENSIONS

GBJL



| REF. | Millimeter | |
|------|------------|-------|
| | Min. | Max. |
| A | 27.10 | 27.70 |
| B | 14.00 | 14.60 |
| C | 3.60 | 4.00 |
| D | 14.5 | 15.5 |
| E | 9.80 | 10.20 |
| F | 3.30 | 3.70 |
| G | 1.80 REF. | |
| H | 2.50 | 2.90 |
| I | 0.90 | 1.10 |
| J | 0.30 | 0.70 |
| K | 7.30 | 7.70 |
| L | 2.50 | 2.90 |
| M | 2.60 | 3.00 |
| N | 2.80 | 3.20 |
| P | 2.00 | 2.40 |
| Q | 8.40 | 9.20 |
| R | 3.00 | 3.40 |