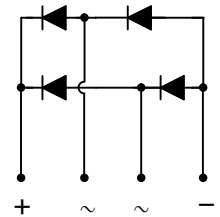
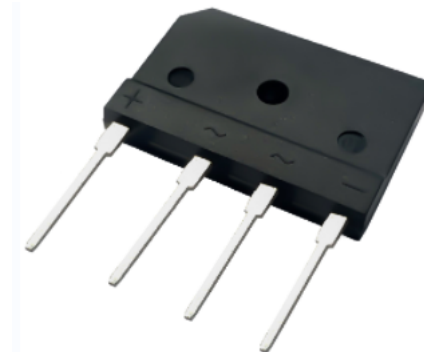




1. Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability

GBJ



2. Mechanical Data

- Case:Molded Plastic,GBJ.
- Epoxy:UL 94V-0 rate flame retardant.
- Terminals:Plated Leads Solderable per MIL-STD-750,Method-2026.
- Marking:marked on body.

3. Maximum Ratings and Electrical Characteristics

Electrical Characteristics Rating at 25°C ambient temperature unless otherwise specified.

| PARAMETER | SYMBOL | GBJ2512I | UNIT |
|---|------------------|------------|------------------|
| | Code | GBJ2512 | |
| Maximum Recurrent Peak Reverse Voltage | VRRM | 1200 | V |
| Maximum RMS Voltage | VRMS | 840 | V |
| Maximum DC Blocking Voltage | VDC | 1200 | V |
| Average Rectified Output Current @Tc=90 °C | IF(AV) | 25 | A |
| Peak Forward Surge Current 8.3ms @Tj=25°C | IFSM | 350 | A |
| Single half sine-wave superimposed @Tj=125°C on rated load (JEDEC Method) | | 280 | |
| I ² t Rating for Fusing (t < 8.3ms) | I ² t | 508.4 | A ² S |
| Maximum Instantaneous Forward Voltage @IF=12.5A | VFM | 1.05 | V |
| @IF=25A | | 1.15 | |
| Maximum DC reverse current @Tj=25°C | IR | 5.0 | uA |
| at rated DC blocking voltage @Tj=125°C | | 200 | |
| Dielectric Strength | Vids | 2500 | V |
| The proposed installation torque | Tor | Typ. 5.0 | Kgf.cm |
| Max torque | | Max 8.0 | |
| Typical Junction Capacitance (Note 1) | Cj | 90 | pF |
| Typical Thermal Resistance | RθJA | 22 | °C/W |
| | RθJL | 1.5 | |
| | RθJC | 1.0 | |
| Operating Temperature Range | Tj | -55 to+150 | °C |
| Storage Temperature Range | TSTG | -55 to+150 | °C |

Note:

1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



4. Rating And Characteristic Curves

Fig. 1 Forward Current Derating Curve

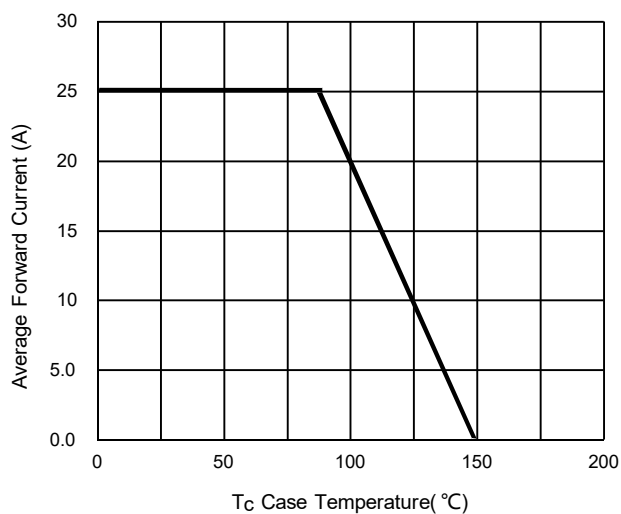


Fig. 2 Typical Forward Characteristics

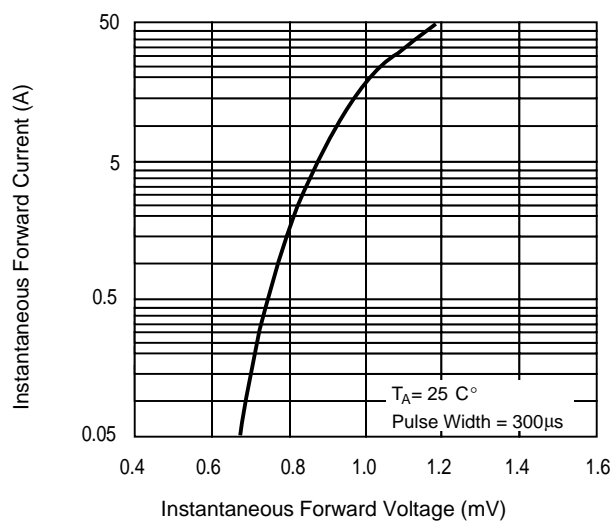


Fig. 3 Forward Surge Current Capability

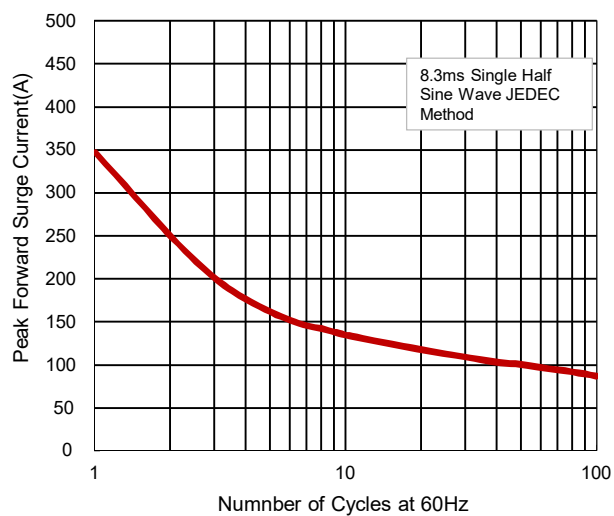
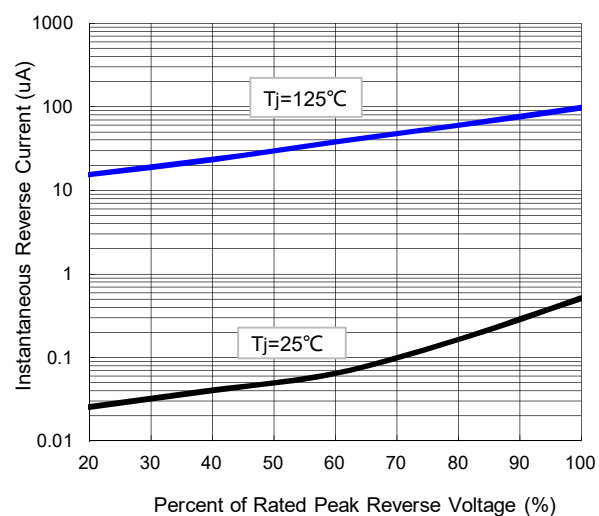
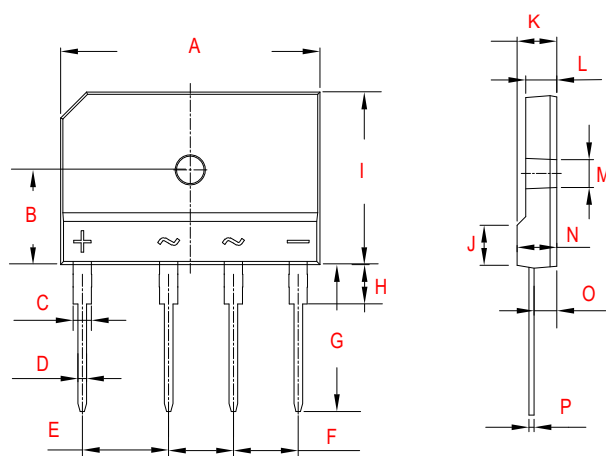


Fig.4 Typical Reverse Characteristics



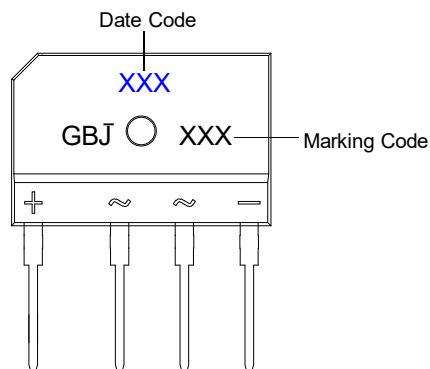
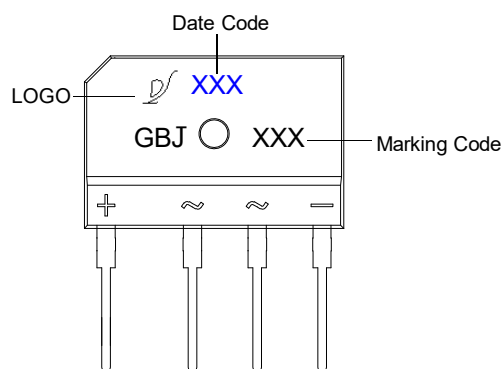


5. Dimensions



| Dimensions | Inches | | Millimeters | |
|------------|--------|-------|-------------|------|
| | Min | Max | Min | Max |
| A | 1.169 | 1.193 | 29.7 | 30.3 |
| B | 0.425 | 0.441 | 10.8 | 11.2 |
| C | 0.075 | 0.091 | 1.9 | 2.3 |
| D | 0.035 | 0.043 | 0.9 | 1.1 |
| E | 0.354 | 0.433 | 9.0 | 11.0 |
| F | 0.287 | 0.303 | 7.3 | 7.7 |
| G | 0.699 | 0.709 | 17.0 | 18.0 |
| H | 0.150 | 0.165 | 3.8 | 4.2 |
| I | 0.776 | 0.799 | 19.7 | 20.3 |
| J | 0.189 | 0.205 | 4.8 | 5.2 |
| K | 0.173 | 0.189 | 4.4 | 4.8 |
| L | 0.134 | 0.150 | 3.4 | 3.8 |
| M | 0.122 | 0.134 | 3.1 | 3.4 |
| N | 0.173 | 0.189 | 4.4 | 4.8 |
| O | 0.094 | 0.110 | 2.4 | 2.8 |
| P | 0.020 | 0.028 | 0.5 | 0.7 |

6. Part Marking System



7. Package Information

| Package | Miniimum Package (pcs) | Inner Box Quantity(pcs) | Outer Carton Quantity(pcs) | Delivery Mode |
|---------|------------------------|-------------------------|----------------------------|---------------|
| GBJ | 15 | 180 | 1800 | Tube |



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