

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - **400 to 1000** Volts
FORWARD CURRENT - **25** Amperes

FEATURES

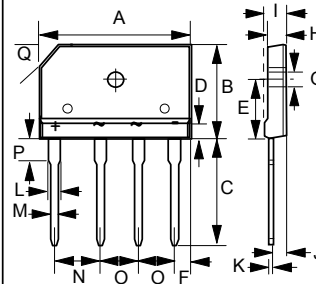
- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability.
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0
- UL Recognition File # E95060

ESD Capability:

MECHANICAL DATA

- Polarity : Symbols molded on body
- Weight : 0.23 ounces, 6.6 grams
- Mounting position : Any

GBJ



| GBJ | | |
|------------------------------|--------------------|--------------------|
| DIM. | MIN. | MAX. |
| A | 29.70 | 30.30 |
| B | 19.70 | 20.30 |
| C | 17.0 | 18.0 |
| D | 4.70 | 4.90 |
| E | 10.80 | 11.20 |
| F | 2.30 | 2.70 |
| G | 3.10 \varnothing | 3.40 \varnothing |
| H | 3.40 | 3.80 |
| I | 4.40 | 4.80 |
| J | 2.50 | 2.90 |
| K | 0.60 | 0.80 |
| L | 2.00 | 2.40 |
| M | 0.90 | 1.10 |
| N | 9.80 | 10.20 |
| O | 7.30 | 7.70 |
| P | 3.80 | 4.20 |
| Q | (3.0) x 45° | |
| All Dimensions in millimeter | | |

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

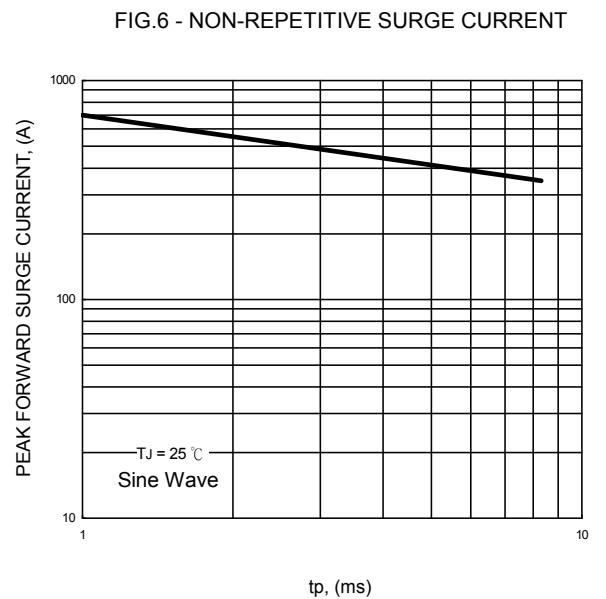
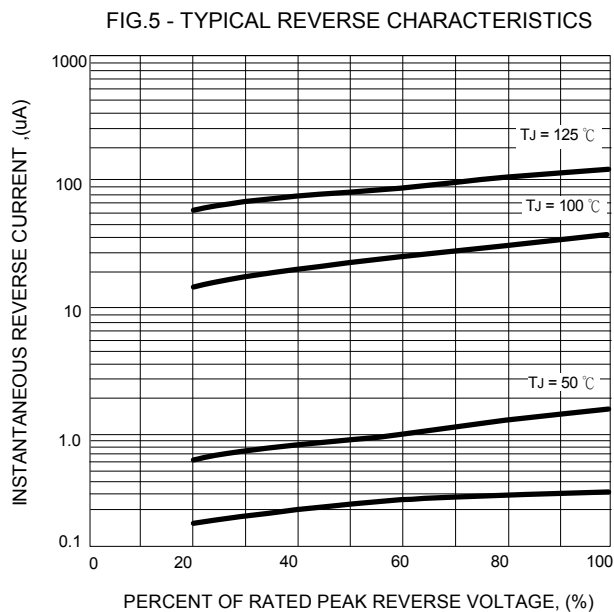
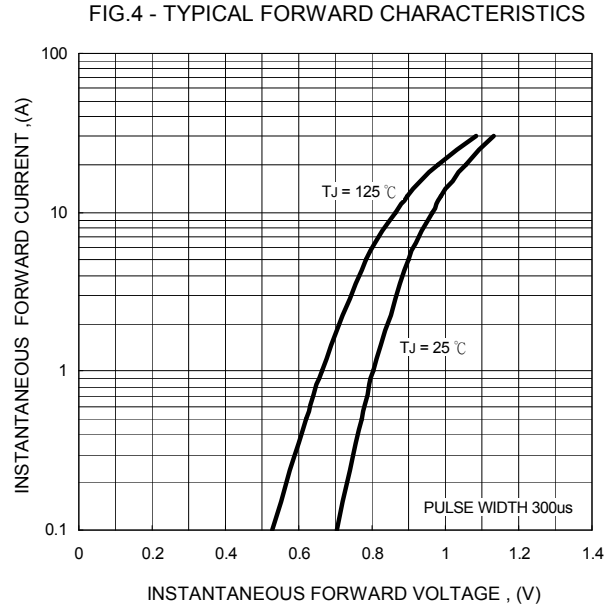
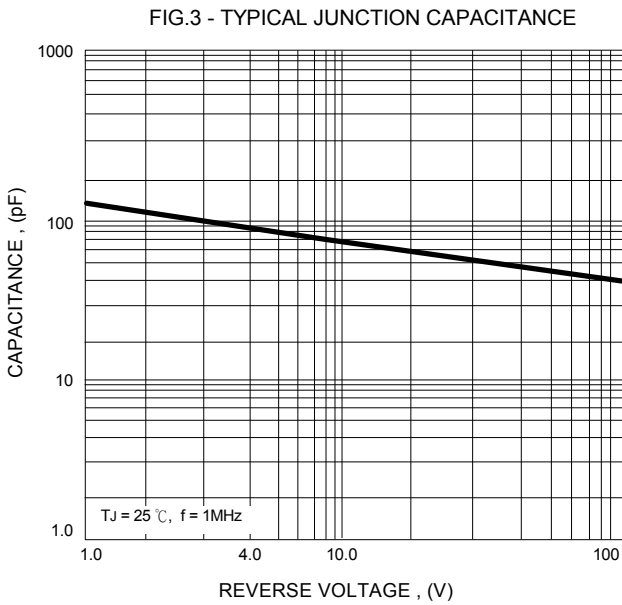
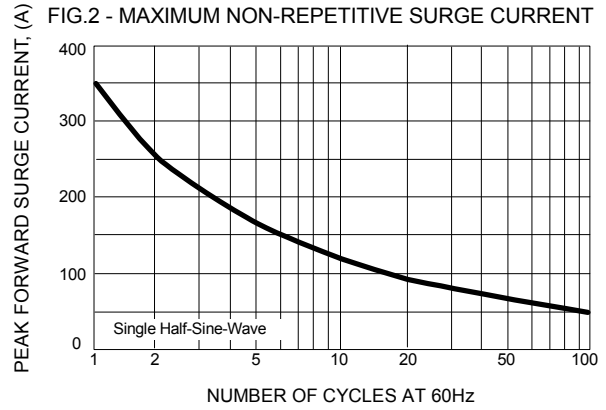
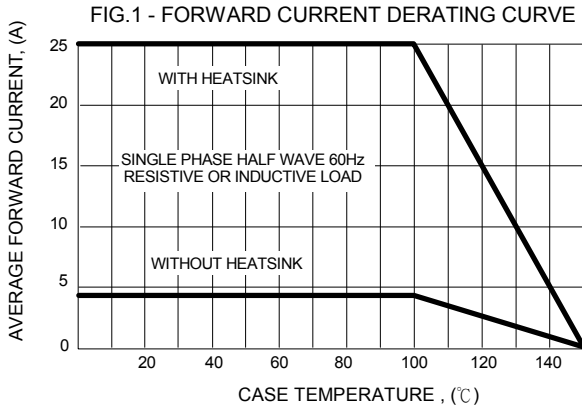
Ratings at 25°C ambient temperature unless otherwise specified.

| CHARACTERISTICS | SYMBOL | GBJ 2504 | GBJ 2506 | GBJ 2508 | GBJ 2510 | UNIT |
|--|-------------------|-------------|----------|----------|----------|------------------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 400 | 600 | 800 | 1000 | V |
| Maximum DC Blocking Voltage | V _{DC} | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward (with heatsink Note 2) Rectified Current @T _c =100°C (without heatsink) | I _(AV) | 25 4.2 | | | | A |
| Peak Forward Surge Current single half sine-wave @T _J =25 °C @8.3ms @1.0ms | I _{FSM} | 350 700 | | | | A |
| Maximum forward Voltage at 12.5A DC | V _F | 1.05 | | | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage @T _J =25 °C @T _J =125 °C | I _R | 10 500 | | | | uA |
| I ² t Rating for fusing (t = 8.3ms) | I ² t | 510 | | | | A ² S |
| Typical Junction Capacitance per element (Note 1) | C _J | 85 | | | | pF |
| Typical Thermal Resistance (Note 2) | R _{θJC} | 1.0 | | | | °C/W |
| Mounting Torque (Recommended torque: 0.5 N.m) | TOR | 0.8 | | | | N.m |
| Operating Temperature Range | T _J | -55 to +150 | | | | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | | | | °C |

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Device mounted on 250mm x 250mm x 20mm Aluminum Plate Heatsink.

REV. 12, Apr-2019, KBDG06



Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.