



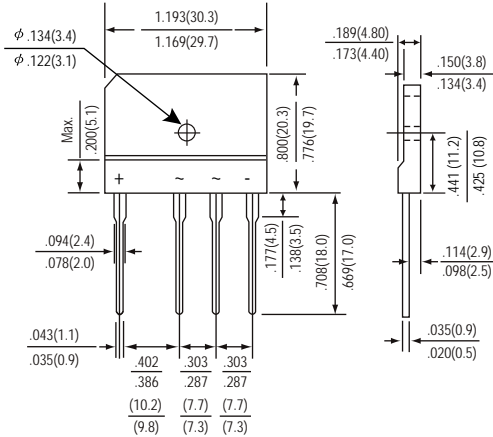
GBJ15D THRU GBJ15M

GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 200 to 1000 Volts

Forward Current - 15.0 Amperes

GBJ



*Dimensions in inches and (millimeters)



FEATURES

- * Compliance to RoHS product
- * Ideal for printed circuit board
- * Low forward voltage drop, high current capability
- * Plastic Material-UL Recognition Flammability Classification 94V-0

MECHANICAL DATA

Case : GBJ molded plastic

Terminals : Tin Plated, solderable per MIL-STD-750, Method 2026

Polarity : As marked on Body

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

| Ratings at 25 °C ambient temperature unless otherwise specified. | SYMBOLS | GBJ15D | GBJ15G | GBJ15J | GBJ15K | GBJ15M | UNITS |
|--|----------------------------------|-------------|--------|--------|--------|--------|--------|
| Maximum repetitive peak reverse voltage | V _{RRM} | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS voltage | V _{RMS} | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC blocking voltage | V _{DC} | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum average forward (with heatsink Note 2) rectified current at T _C =100 °C | I _(AV) | 15 | | | | | Amps |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I _{FSM} | 200 | | | | | Amps |
| Maximum instantaneous forward voltage @ I _F =7.5 A | V _F | 1.1 | | | | | Volts |
| Maximum DC reverse current @ T _C =25 °C at rated DC blocking voltage @ T _C =125 °C | I _R | 10 500 | | | | | uA |
| Typical junction capacitance per element (NOTE 1) | C _J | 60 | | | | | pF |
| Typical thermal resistance (NOTE 2) | R _{θJC} | 0.8 | | | | | °C / W |
| Operating junction and storage temperature range | T _J ,T _{STG} | -55 to +150 | | | | | °C |

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
 (2) Device mounted on 300 x 300 x 1.6mm Cu Plate Heatsink.

RATINGS AND CHARACTERISTIC CURVES GBJ15D THRU GBJ15M

FIG.1 - FORWARD CURRENT DERATING CURVE

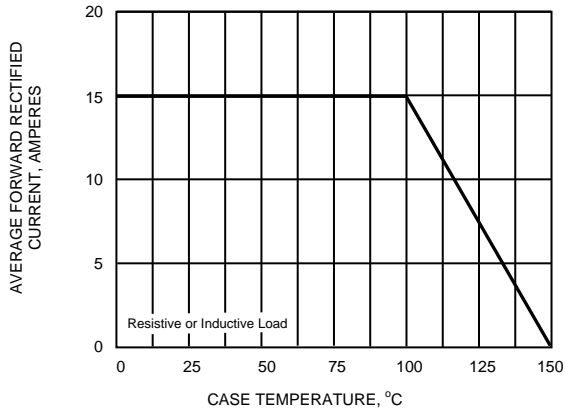


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

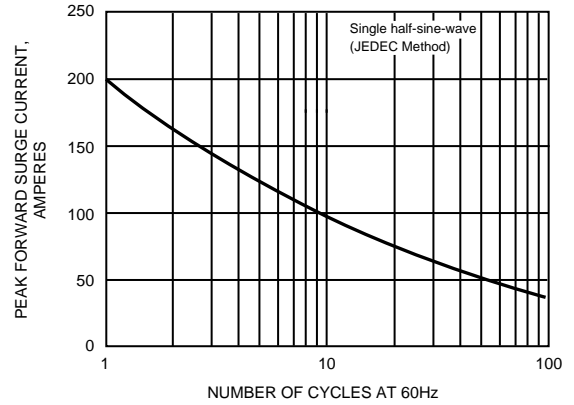


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

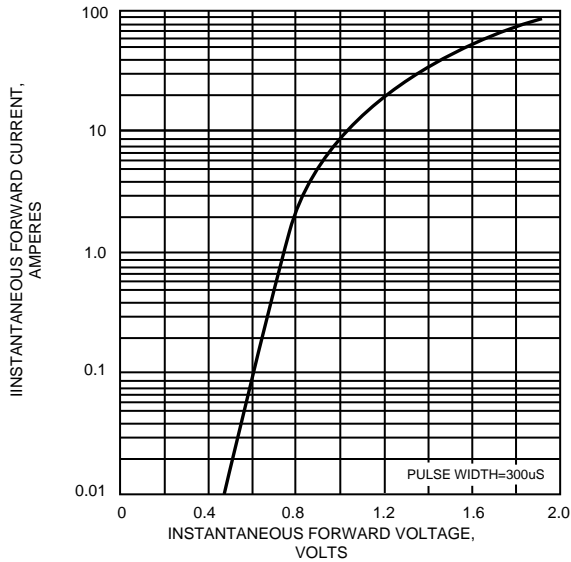


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

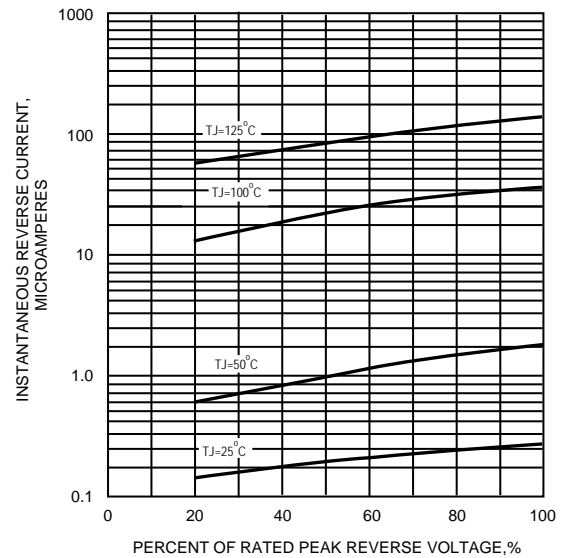


FIG.5 - TYPICAL JUNCTION CAPACITANCE

