



GBJ10D THRU GBJ10M

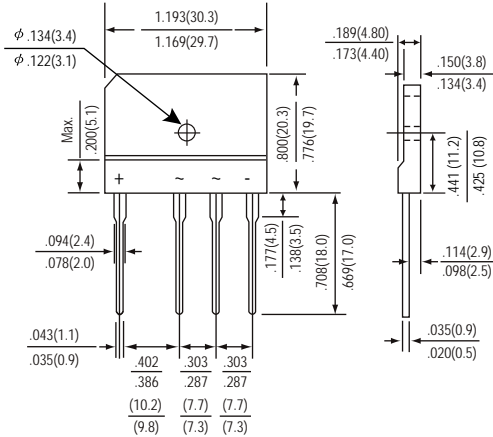
GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 200 to 1000 Volts

Forward Current - 10.0 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	GBJ10D	GBJ10G	GBJ10J	GBJ10K	GBJ10M	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)	10.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	175					Amps
Maximum instantaneous forward voltage @ I _F =5.0 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	5 500					uA
Typical junction capacitance per element (NOTE 1)	C _J	55					pF
Typical thermal resistance (NOTE 2)	R θ JC	1.4					°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 150 x 150 x 1.6mm Cu Plate Heatsink.

RATINGS AND CHARACTERISTIC CURVES GBJ10A THRU GBJ10M

FIG.1 - FORWARD CURRENT DERATING CURVE

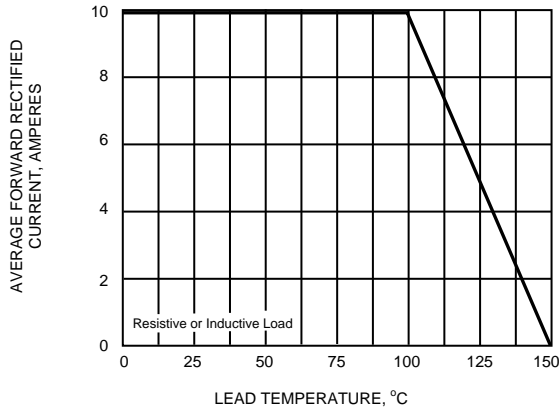


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

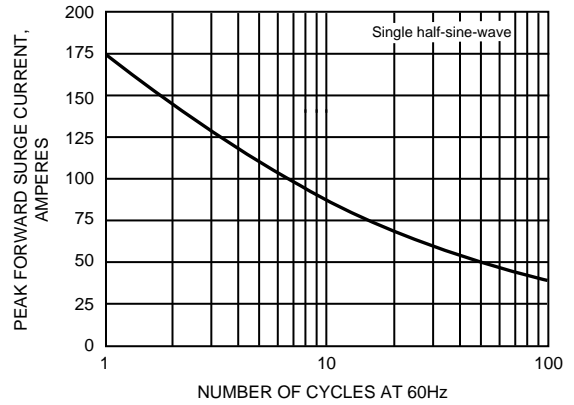


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

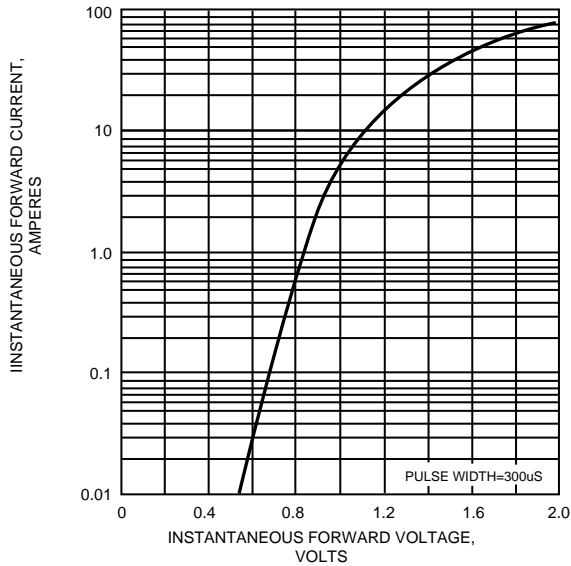


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

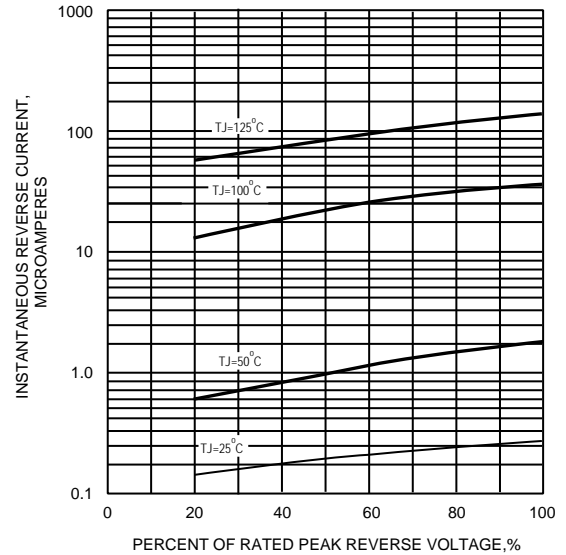


FIG.5 - TYPICAL JUNCTION CAPACITANCE

