



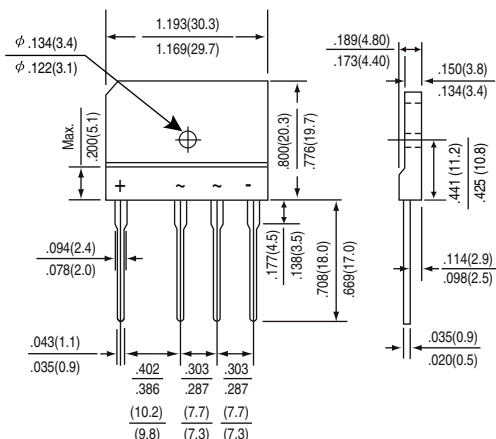
GBJ8D THRU GBJ8M

GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 200 to 1000 Volts

Forward Current - 8.0 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	GBJ8D	GBJ8G	GBJ8J	GBJ8K	GBJ8M	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)	8.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	170					Amps
Maximum instantaneous forward voltage @ I _F =4.0 A	V _F	1.0					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 _{θJC}	1.6					°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 100 x 100 x 1.6mm Cu Plate Heatsink.

RATINGS AND CHARACTERISTIC CURVES GBJ8D THRU GBJ8M

FIG.1 - FORWARD CURRENT DERATING CURVE

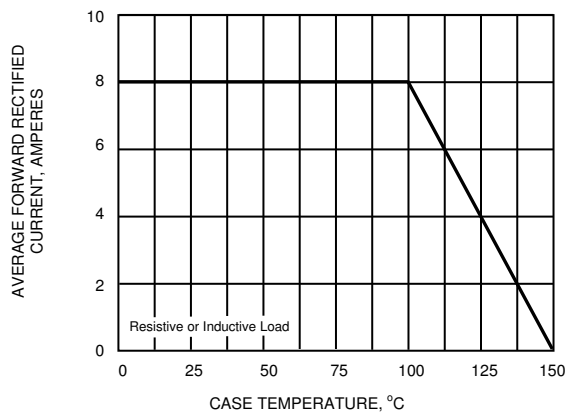


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

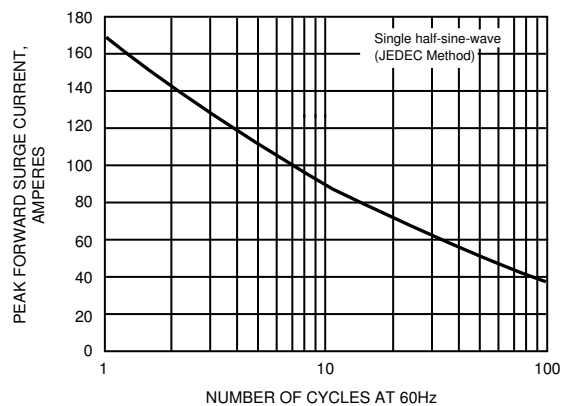


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

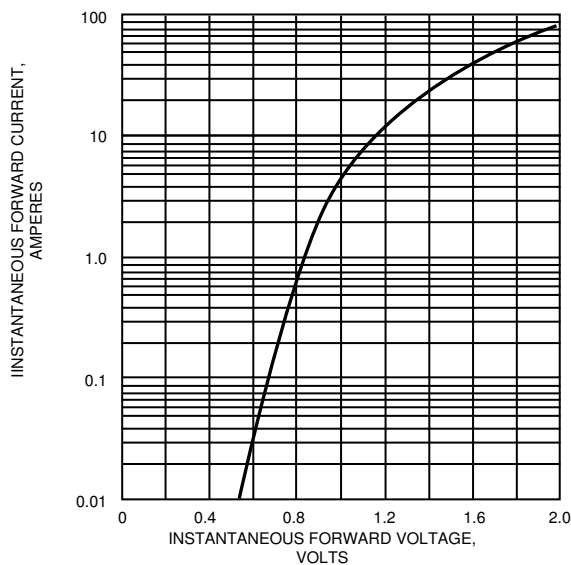


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

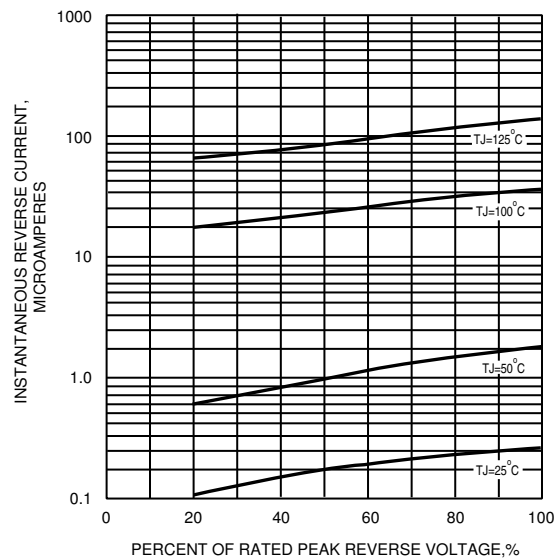


FIG.5 - TYPICAL JUNCTION CAPACITANCE

