



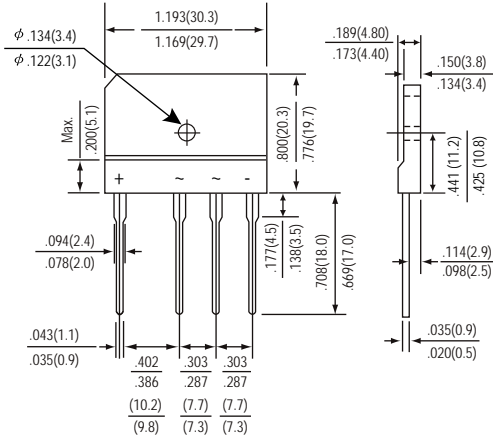
# GBJ15D THRU GBJ15M

## GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 200 to 1000 Volts

Forward Current - 15.0 Amperes

**GBJ**



\*Dimensions in inches and (millimeters)



### FEATURES

- \* Lead free product , compliance to RoHs
- \* 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	VRRM	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	200	400	600	800	1000	Volts
Maximum average forward (with heatsink Note 2) rectified current at Tc=100°C	I (AV)	15					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200					Amps
Maximum instantaneous forward voltage @ IF=7.5 A	VF	1.1					Volts
Maximum DC reverse current @Tc=25°C at rated DC blocking voltage @Tc=125°C	IR	10 500					uA
Typical junction capacitance per element (NOTE 1)	CJ	60					pF
Typical thermal resistance (NOTE 2)	R θJC	0.8					°C / W
Operating junction and storage temperature range	TJ,TSTG	-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

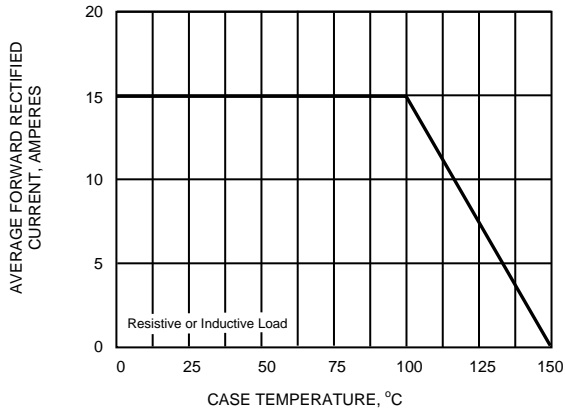


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

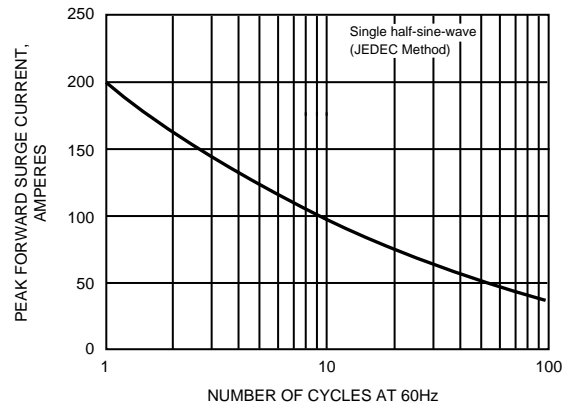


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

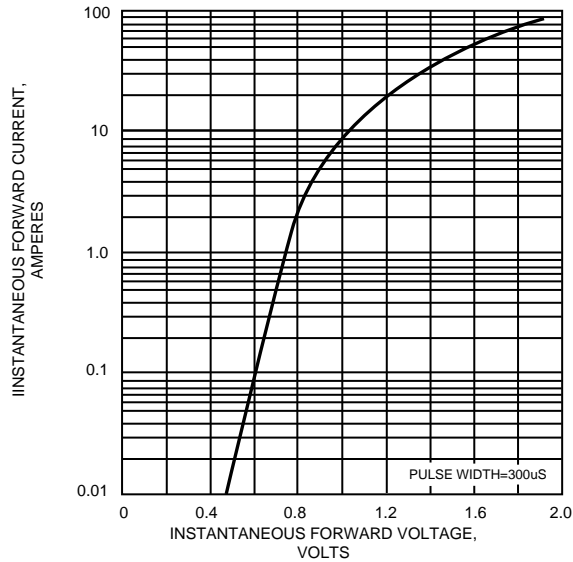


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

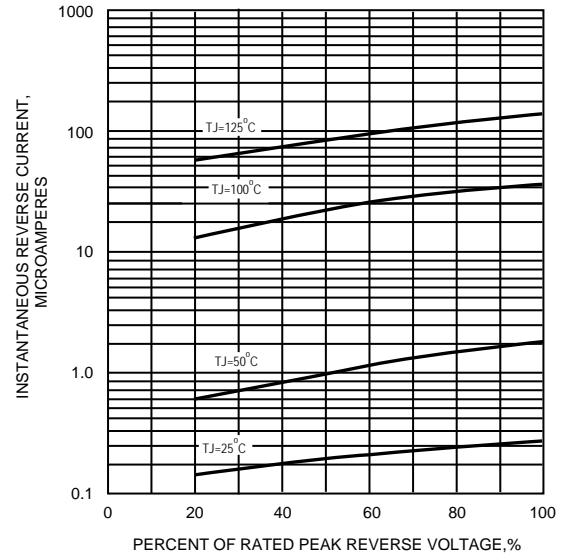


FIG.5 - TYPICAL JUNCTION CAPACITANCE

