



GBJ25A THRU GBJ25M

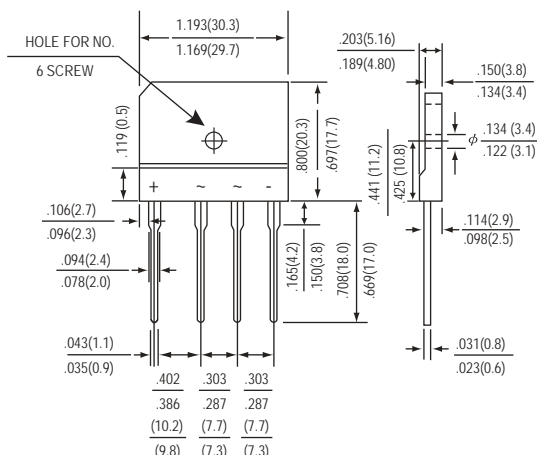
SINTERED GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 25.0 Amperes

PATENTED

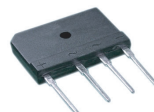
GBJ



*Dimensions in inches and (millimeters)

SuperBridge with GPRC inside

SUPEREX II™



FEATURES

- * Internal Constructure with GPRC (Glass Passivated Rectifier Chip) inside
- * High Case Dielectric Strength of 1500VRMS
- * Low Reverse Leakage Current
- * High Surge Current Capability
- * Ideal for Printed Circuit Board Applications
- * Plastic Material-UL Recognition Flammability Classification 94V-0

MECHANICAL DATA

Case : GBJ molded plastic

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

Polarity : Molded on body

Mounting : Through Hole for # 6 screw

Mounting torque : 5.0 in-lbs maximum

Weight : 6.6 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	GBJ25A	GBJ25B	GBJ25D	GBJ25G	GBJ25J	GBJ25K	GBJ25M	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward (with heatsink Note 2) rectified current at T _C =100°C	I _{AV}	25							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	350							Amps
Maximum instantaneous forward voltage @ I _F =12.5 A	V _F	1.05							Volts
Maximum DC reverse current @ T _C =25°C at rated DC blocking voltage @ T _C =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}	0.6							K / W
Operating junction and storage temperature range	T _J ,T _{STG}	-55 to +175							°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 GBJ25A THRU GBJ25M

FIG.1 - FORWARD CURRENT DERATING CURVE

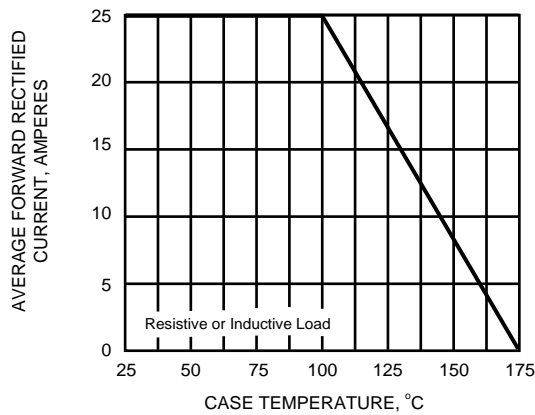


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

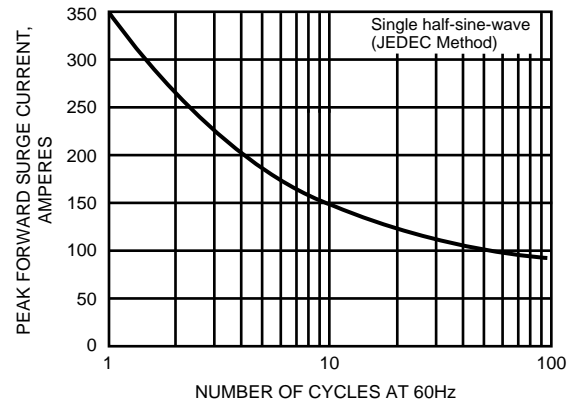


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

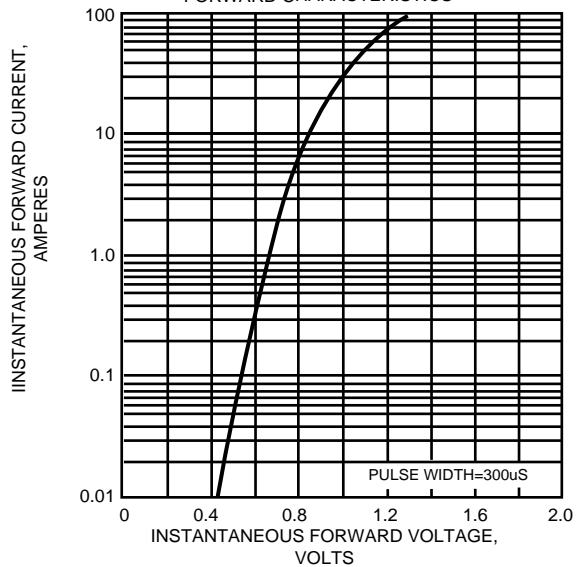


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

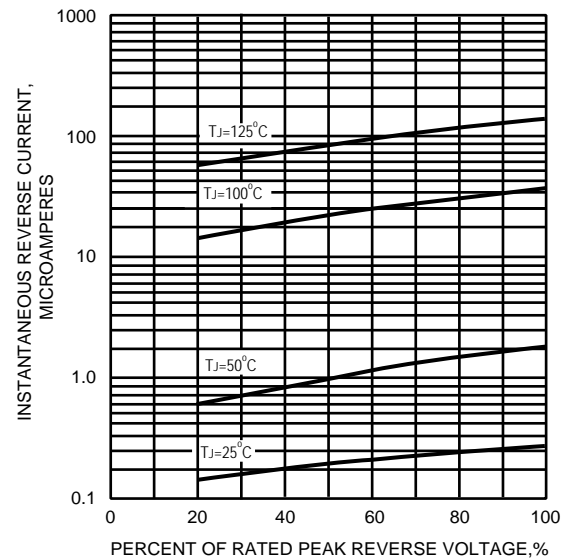


FIG.5 - TYPICAL JUNCTION CAPACITANCE

