



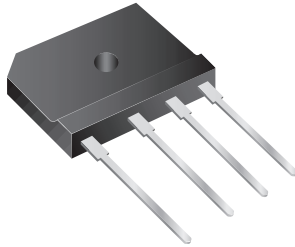
Elektronische Bauelemente

GBJ8A THRU GBJ8M

VOLTAGE -50V ~ 1000V

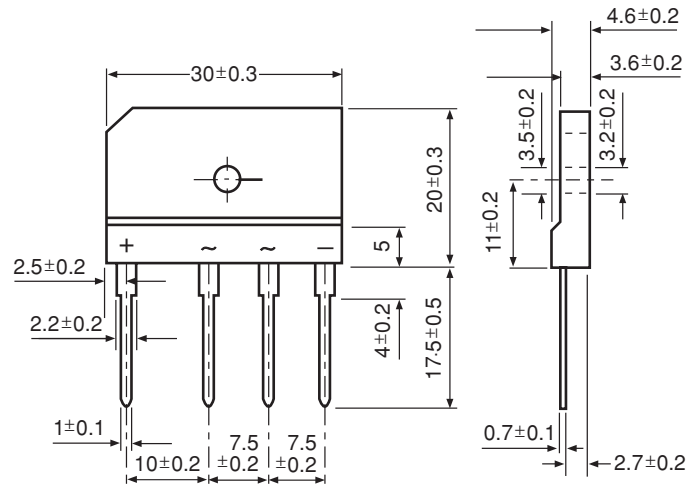
-8.0 AMP Glass Passivated Bridge Rectifiers

RoHS Compliant Product
A suffix of "-C" specifies halogen-free.



FEATURES

- * Low Forward voltage Drop, High Current Capability
- * Ideal For Printed Circuit Board
- * Reliable Low Cost Construction Utilizing Molded Plastic Technique Results In Inexpensive Product
- * Plastic Material Has Underwrites Laboratory Flammability Classification 94V-0
- * Rating To 1000V PRV



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
Resistive or inductive load, 60Hz,
For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	GBJ 8A	GBJ 8B	GBJ 8D	GBJ 8G	GBJ 8J	GBJ 8K	GBJ 8M	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note2) Rectified Current @ $T_C=100$ (without heatsink)	$I_{(AV)}$				8.0				A
Peak Forward Surge Current, 8.3 ms single half Sine-wave superimposed on rated load (JEDEC method)	I_{FSM}				170				A
Maximum Forward Voltage at 4.0A	V_F				1.10				V
Maximum DC Reverse Current $T_a=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_a=125^\circ\text{C}$	I_R				5.0				μA
I^2t Rating for fusing ($t < 8.3\text{ms}$)	I^2t				120				A^2s
Typical Junction Capacitance per element (Note1)	C_J				55				pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$				1.8				$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J				- 55 ~ + 150				$^\circ\text{C}$
Storage Temperature Range	T_{STG}				- 55 ~ + 150				$^\circ\text{C}$

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
2. Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES

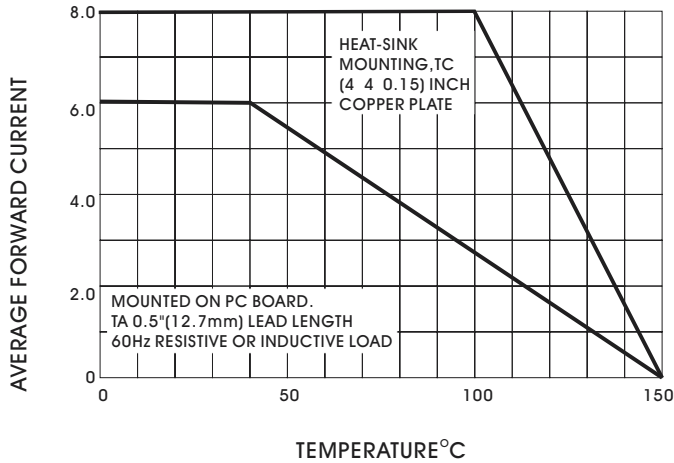


Fig. 1- DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

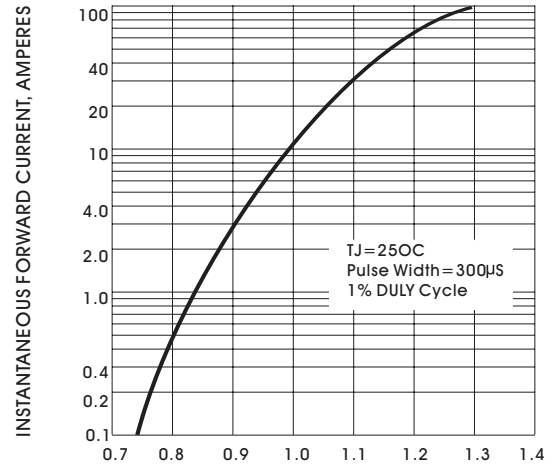


Fig. 2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT

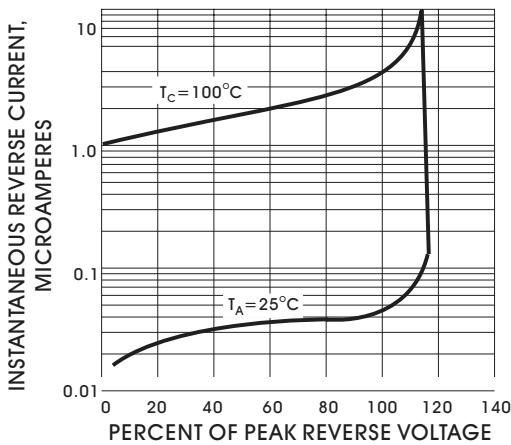


Fig. 3- TYPICAL PEAK REVERSE CHARACTERISTICS

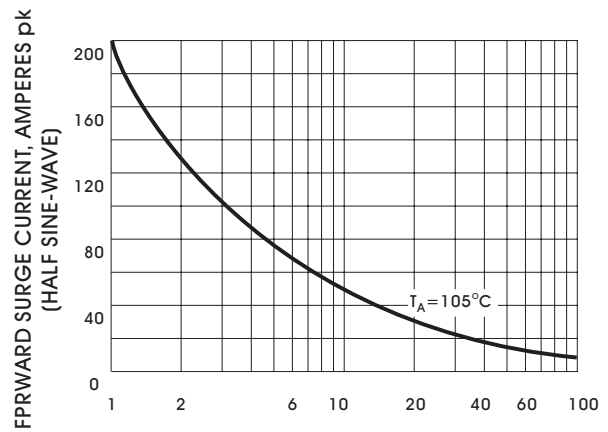


Fig. 4- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

