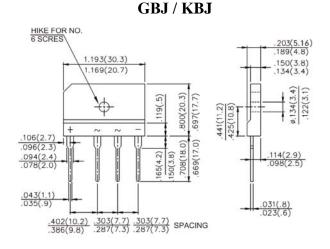


SILICON BRIDGE RECTIFIERS GLASS PASSIVATED BRIDGE RECTIFIERS GBJ/KBJ8A thru GBJ/KBJ8M 50 to 1000 V 8.0 A

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing Molded plastic technique results in Inexpensive product
- The plastic material has UL Flammability classification 94V-O



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified. Single phase , half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%.

CHARACTERISTICS	SYMBOL	GBJ KBJ 8A	GBJ KBJ 8B	GBJ KBJ 8D	GBJ KBJ 8G	GBJ KBJ 8J	GBJ KBJ 8K	GBJ KBJ 8M	Units
Maximum Recurrent 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 Note2) Rectified Current @ $T_C = 100^{\circ}C$	V _(AV)	8.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}	170							Amp
Maximum DC Forward Voltage at 4.0A DC	V_{F}	1.0							Volts
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Ι _R	5.0 500							uAmp
I ² t Rating for fusing (t<8.3ms)	I ² T	120							A ² S
Typical Junction Capacitance (Note 1)	CJ	55.0							pF
Typical Thermal Resistance	Rejc	1.6							°C/W
Operating Temperature Range	T_{J}	-55 to +150							Ĉ
Storage Temperature Range	T _{STG}	-55 to +150							°C

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Device mounted on 100mm x 100mm X 1.6mm Cu Plate Heatsink.



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RATINGS AND CHARACTERISTIC CURVES (GBJ/KBJ8A THRU GBJ/KBJ8M)

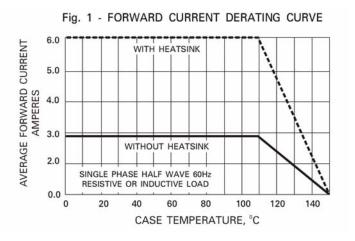


Fig. 3 - TYPICAL JUNCTION CAPACITANCE

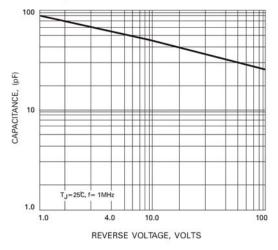


Fig. 5 - TYPICAL REVERSE CHARACTERISTICS

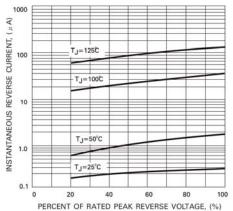


Fig. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

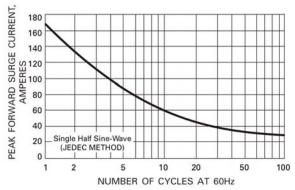


Fig. 4 - TYPICAL FORWARD CHARACTERISTICS

