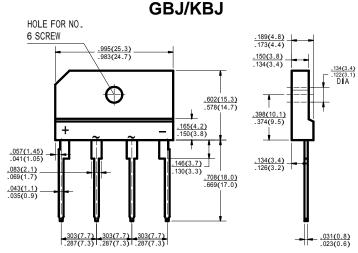


SILICON BRIDGE RECTIFIERS GLASS PASSIVATED BRIDGE RECTIFIERS

GBJ / KBJ 6A thru GBJ / KBJ 6M 50 to 1000V 6.0A

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%.

		GBJ KBJ 6A	GBJ KBJ 6B	GBJ KBJ 6D	GBJ KBJ 6G	GBJ KBJ 6J	GBJ KBJ 6K	GBJ KBJ 6M	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 (without heatsink)	V _(AV)	6.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}	170							Amp
Maximum DC Forward Voltage at 3.0A DC	V_{F}	1.0							Volts
Maximum DC Reverse Current at rated @ T_A =25°C DC Blocking Voltage Per Element @ T_A =125°C	IR	5.0 500							uАmp
I ² t Rating for fusing (t<8.3ms)	I ² T	120							A^2S
Typical Junction Capacitance (Note 1)	CJ	55.0							pF
Typical Thermal Resistance	R⊕JC	1.8							°C/W
Operating Temperature Range	T_{J}	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							$^{\circ}$

Notes

- 1.Measured at 1.0 MHZ and applied reverse voltage of 4.0v DC
- 2. Thermal Resistance Junction to Case

RATINGS AND CHARACTERISTIC CURVES (GBJ/KBJ6A THRU GBJ/KBJ6M)

