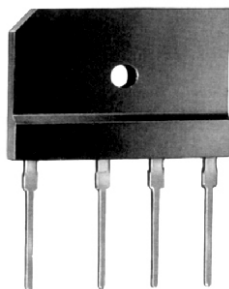


GBJ/KBJ6A thru GBJ/KBJ6M

**SILICON BRIDGE RECTIFIERS
GLASS PASSIVATED
BRIDGE RECTIFIERS**



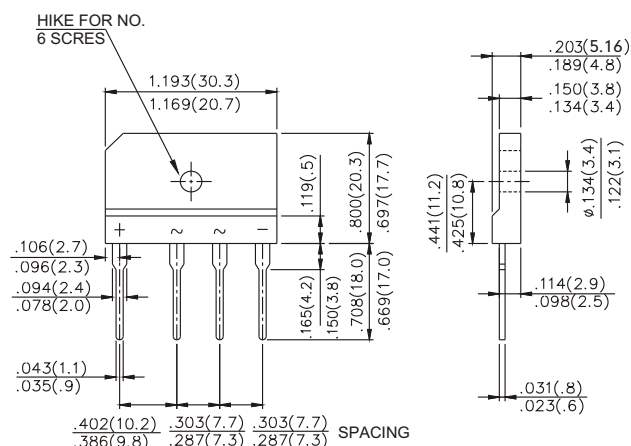
**CHENG-YI
ELECTRONIC**



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-0

REVERSE VOLTAGE -50 to 1000 Volts
FORWARD CURRENT -6.0 Amperes



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	V
Maximum RMS Bridge Input 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°C (without heatsink)	I _{AV}	6.0 2.8							A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	170							A
Maximum DC Forward Voltage at 3.0A DC	V _F	1.0							V
Maximum DC Reverse Current @ T _A =25°C at rated DC Blocking Voltage @ T _A =125°C	I _R	5.0 500							μ A
I ² t Rating for fusing (t<8.3ms)	I ² t	120							A ² S
Typical Junction Capacitance per element(Note1)	C _J	55							pF
Typical Thermal Resistance (Note2)	R θ JC	1.8							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

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

2. Device mounted on 75mm x 75mm X 1.6mm Cu Plate Heatsink.

GBJ/KBJ6A thru GBJ/KBJ6M

SILICON BRIDGE RECTIFIERS GLASS PASSIVATED BRIDGE RECTIFIERS



**CHENG-YI
ELECTRONIC**

RATING AND CHARACTERISTICS CURVES GBJ/KBJ6A THRU GBJ/KBJ6M

Fig. 1 - FORWARD CURRENT DERATING CURVE

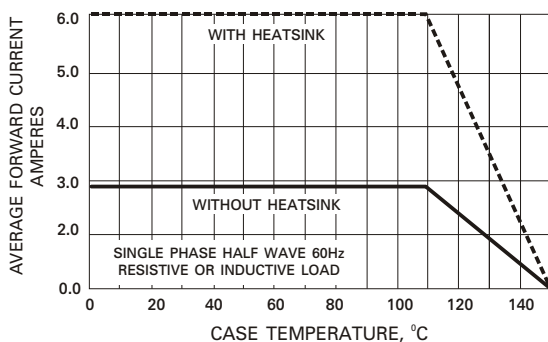


Fig. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

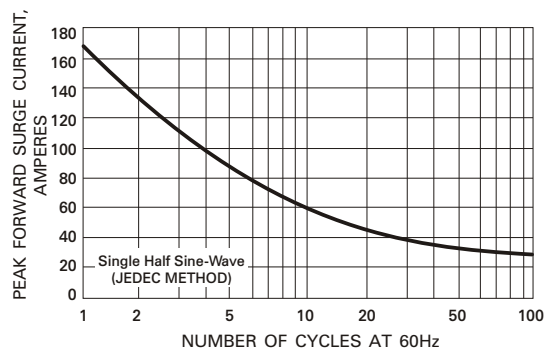


Fig. 3 - TYPICAL JUNCTION CAPACITANCE

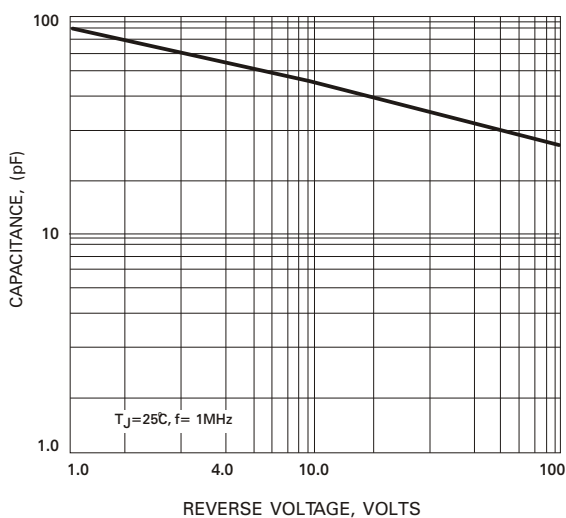


Fig. 4 - TYPICAL FORWARD CHARACTERISTICS

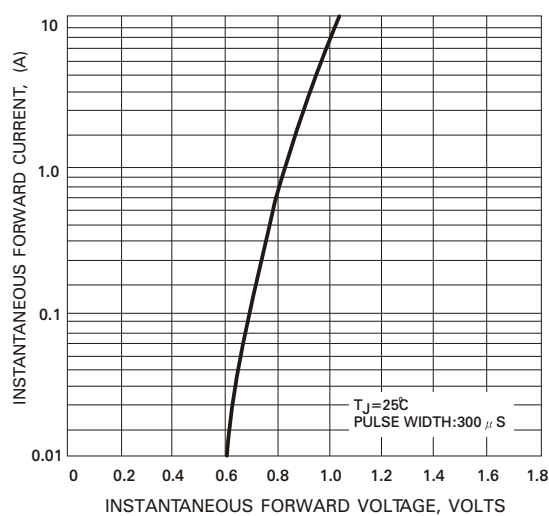


Fig. 5 - TYPICAL REVERSE CHARACTERISTICS

