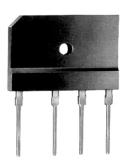
GBJ/KBJ20A thru GBJ/KBJ20M

SILICON BRIDGE RECTIFIERS GLASS PASSIVATED BRIDGE RECTIFIERS

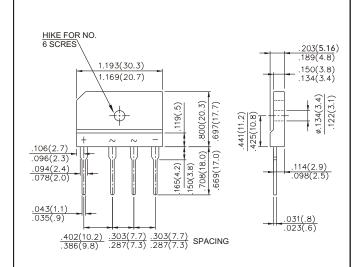


REVERSE VOLTAGE -50 to 1000 Volts FORWARD CURRENT -20.0 Amperes



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

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

For capacitive load, derate current by 20%.									
CHARACTERISTICS	SYMBOL	GBJ KBJ 20A	GBJ KBJ 20B	GBJ KBJ 20D	GBJ KBJ 20G	GBJ KBJ 20J	GBJ KBJ 20K	GBJ KBJ 20M	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	٧
Maximum Average Forward (with heatsink Note 2) Rectified Current @ T _C =100°C (without heatsink)	I _(AV)	20.0 3.6							А
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	240							А
Maximum Forward Voltage at 10.0A DC	V _F	1.05							٧
Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =125°C	I _R	10 500							μΑ
I ² t Rating for fusing (t<8.3ms)	l ² t	240							A ² S
Typical Junction Capacitance per element (Note 1)	CJ	60							РF
Typical Thermal Resistance (Note 2)	$R\theta JC$	0.8							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
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 300mm x 300mm X 1.6mm Cu Plate Heatsink.

GBJ/KBJ20A thru GBJ/KBJ20M

SILICON BRIDGE RECTIFIERS GLASS PASSIVATED BRIDGE RECTIFIERS



RATING AND CHARACTERISTICS CURVES GBJ/KBJ20A THRU GBJ/KBJ20M

FIG. 1 - FORWARD CURRENT DERATING CURVE 25 AVERAGE FORWARD CURRENT AMPERES WITH HEATSINK 20 SINGLE PHASE HALF WAVE 60Hz RESISTIVE OR INDUCTIVE LOAD 15 10 5 WITHOUT HEATSINK 0 20 100 120 140 CASE TEMPERATURE, °C

FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

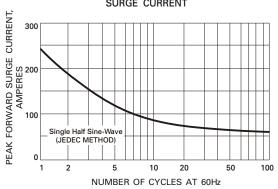


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

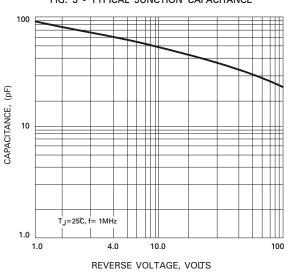


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

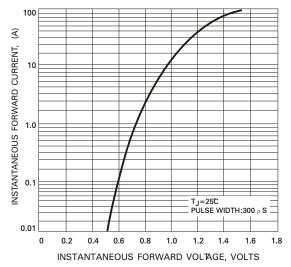


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

