

GBJ10005 THRU GBJ1010

Single Phase 10 AMPS. Silicon Bridge Rectifiers

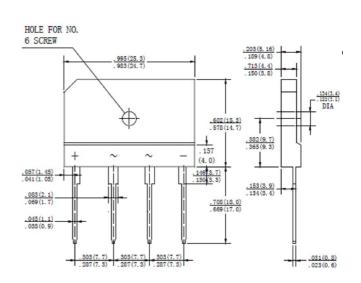
Voltage Range: 50 to 1000 Volts Current: 10 Amperes

Features

- UL Recognized File # E-230084
- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed: 260 °C / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension

Mechanical Data

- Case: Molded plastic
- · Lead: solder plated
- Polarity: As marked



KBJ4

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

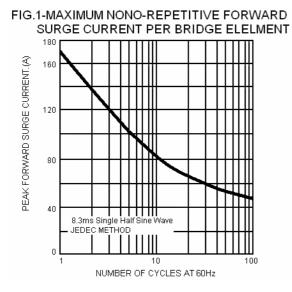
Rating at 25 $^\circ\!\!C$ $\,$ ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

Type Number		GBJ 10005	GBJ 1001	GBJ 1002	GBJ 1004	GBJ 1006	GBJ 1008	GBJ 1010	UNITS
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current $@T_C=115^{\circ}C$	l(AV)	10							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	170							А
Maximum Instantaneous Forward Voltage @ 5.0A	V _F	1.05							V
Maximum DC Reverse Current @ TA=25 $^\circ\!\!\mathbb{C}$ rated DC blocking voltage per leg TA = 125 $^\circ\!\!\mathbb{C}$	I _R	10 250							μA
Typical Thermal Resistance (Note1) (Note2)	$R_{ ext{ hetaJC}}$ $R_{ ext{ hetaJA}}$	1.9 2.6							°CNW
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Тѕтс	-55 to +150							°C

NOTE : Device Mounted on 100X100X1.6mm Thick AI Plate Heatsink.

RATING AND CHARACTERISTIC CURVES



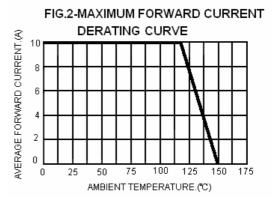


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

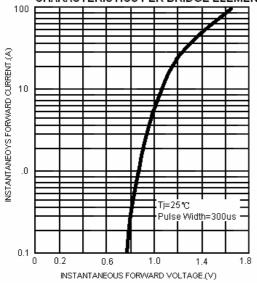


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

