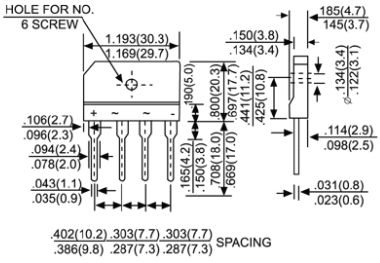
GBJ/KBJ25005 THRU GBJ/KBJ2510

**SINGLE PHASE 25AMPS.
GLASS PASSIVATED BRIDGE
RECTIFIERS**

**Voltage Range
50 to 1000 Volts
Current
25 Amperes**

FEATURES

- UL Recognized File # E-230084
- 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 94 V-0



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 50Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Type Number		GBJ KBJ 25005	GBJ KBJ 2501	GBJ KBJ 2502	GBJ KBJ 2504	GBJ KBJ 2506	GBJ KBJ 2508	GBJ KBJ 2510	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS 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 Note 2) Rectified Current@Tc = 100°C (without heatsink)	$I_{F(AV)}$	25.0 4.2							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	I_{FSM}	350							A
Maximum Instantaneous Forward Voltage Drop Per Leg @12.5A	V_F	1.05							V
Maximun DC Reverse Current at Rated DC Blocking Voltage T_J = 25°C T_J = 125°C	I_R	10 500							uA
I^2t Rating for fusing (t<8.3ms)	I^2t	510							A^2S
Typical Junction Capacitance per Leg (Note 1)	C_J	85							pF
Typical Thermal Resistance(Note 2)	$R_{\theta JC}$	0.6							°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.

RATING AND CHARACTERISTIC CURVES
GBJ/KBJ25005 THRU GBJ/KBJ2510

FIG.1 - FOR WARD CURRENT DERATING CURVE

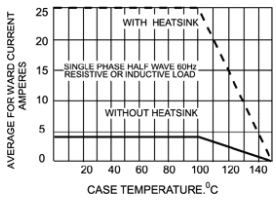


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

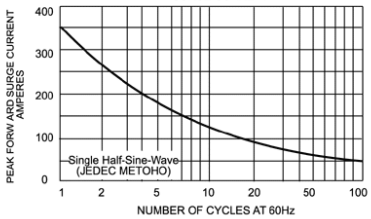


FIG.3 - TYPICAL JUNCTION CAPACITANCE

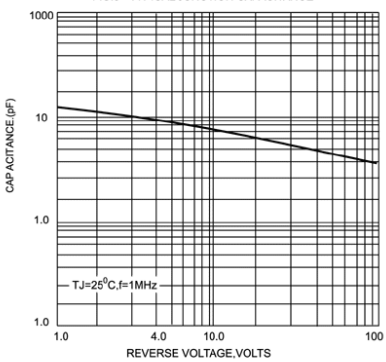


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

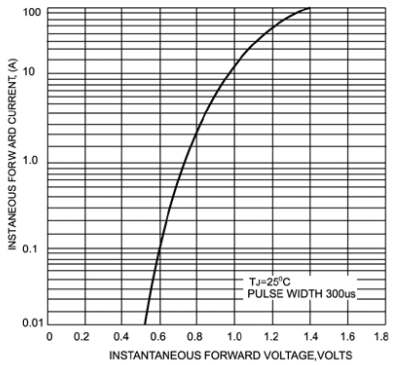


FIG.5-TYPICAL REVERSE CHARACTERISTICS