

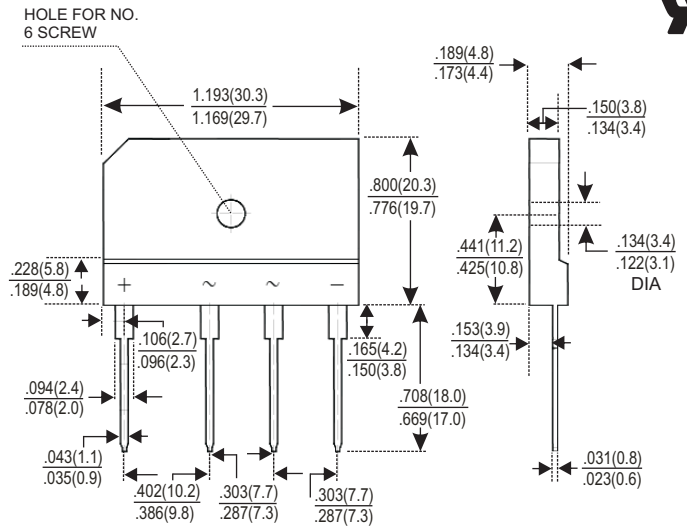


FEATURES

- UL Recognized
- Current 25 Amps
- Voltage Range 50V ~ 1000V
- Glass passivated chip junction
- High surge forward current capability
- GBJ available in 6A, 8A, 10A, 15A, 20A, 25A, 35A and 50A

MECHANICAL DATA

- Molded plastic body (UL 94V-0 rated)
- Mounting through hole for No. 6 screw
- Mounting Torque: recommend 5Kg • cm
- Polarity: As marked
- Lead: solder plated



GBJ

Dimensions in inches and (millimeters)

MAXIMUM RATINGS & 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%

Parameter	Symbol	GBJ 25005	GBJ 2501	GBJ 2502	GBJ 2504	GBJ 2506	GBJ 2508	GBJ 2510	Unit
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 Rectified Current, @T _c =98°C (with heat sink)	I _{O (AV)}	25							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	350							A
I ² t for fusing (t < 8.3ms), non-repetitive	I ² t	508							A ² S
Maximum Instantaneous Forward Voltage@12.5A	V _F	1.1							V
Maximum DC Reverse Current at rated DC Blocking voltage Per Element	I _R	10							μA
Typical Thermal Resistance (Note)	R _{θJC}	1.0							°C/W
Operating Temperature Range	T _J	-55 to + 150							°C
Storage Temperature Range	T _{STG}	-55 to + 150							°C

NOTE: Thermal Resistance from Junction to Case, with heat sink

■ **RATING & CHARACTERISTIC CURVES**

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

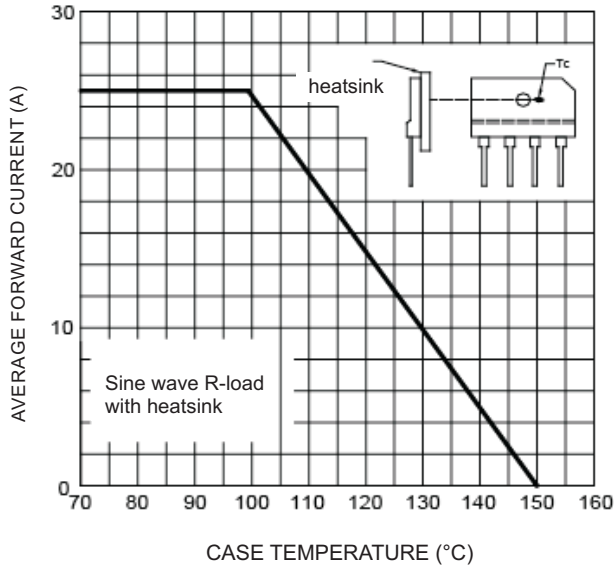


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

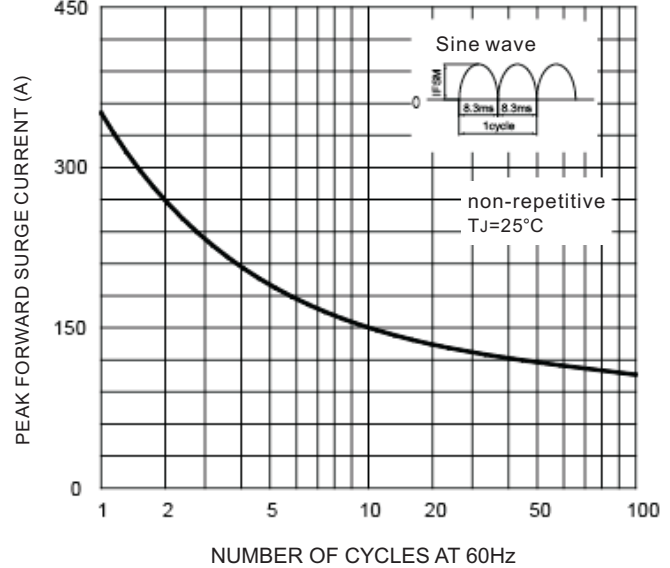


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

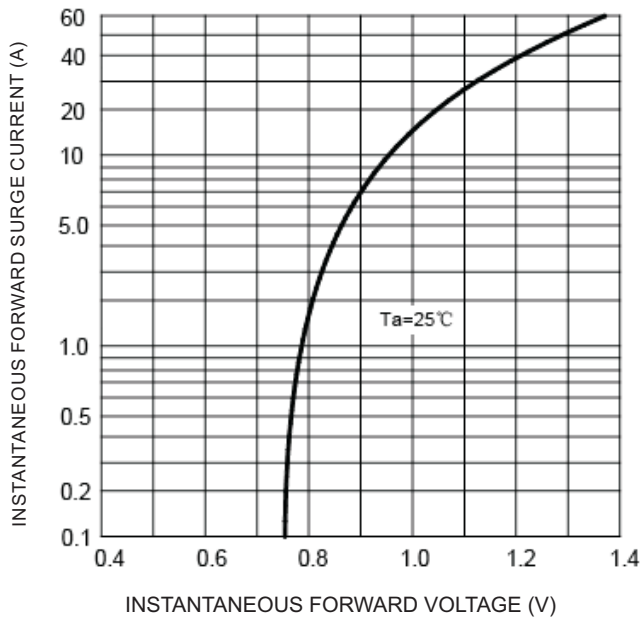


FIG.4-TYPICAL REVERSE CHARACTERISTICS

