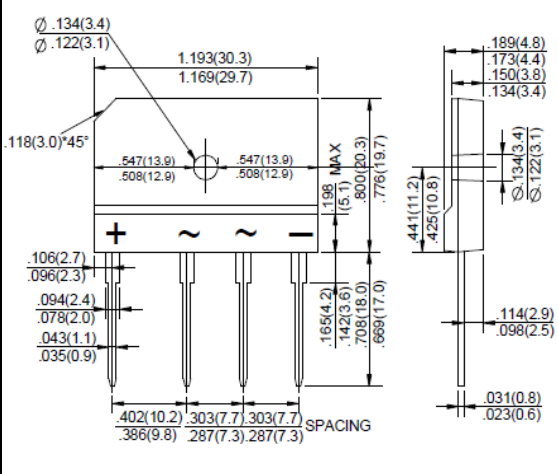


GLASS PASSIVATED BRIDGE RECTIFIERS	REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 50 Amperes
<p>FEATURES</p> <ul style="list-style-type: none"> • Rating to 1000V PRV • Ideal for printed circuit board • Low forward voltage drop,high current capability • Reliable low cost construction utilizing molded plastic technique results in inexpensive product • The plastic material has UL flammability classification 94V-0 <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Polarity: As marked on Body • Mounting position: Any 	<p style="text-align: center;">GBJ</p>  <p style="text-align: center;">Dimensions in inches and (millimeters)</p>

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%

Characteristics	Symbol	GBJ 50005	GBJ 5001	GBJ 5002	GBJ 5004	GBJ 5006	GBJ 5008	GBJ 5010	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
RMS Reverse 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 @ $T_C=100^\circ C$ (with heatsink Note2)	$I_{(AV)}$	50							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	400							A
Maximum Forward Voltage at 25A DC	V_F	1.1							V
Maximum DC Reverse Current @ $T_J=25^\circ C$ at Rated DC Blocking Voltage @ $T_J=125^\circ C$	I_R	10 500							μA
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	660							A^2s
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	0.6							$^\circ C/W$
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150							$^\circ C$

NOTES: 1. Thermal resistance from junction to case with units mounted on heatsink.
2. Device mounted on 300mm*300mm*1.6mm cu plate heatsink.

Rating and Characteristic Curves

FIG.1-FORWARD CURRENT DERATING CURVE

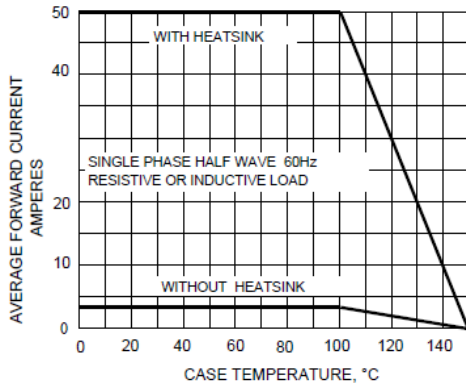


FIG.2-MAXMUN NON-REPETITIVE SURGE CURRENT

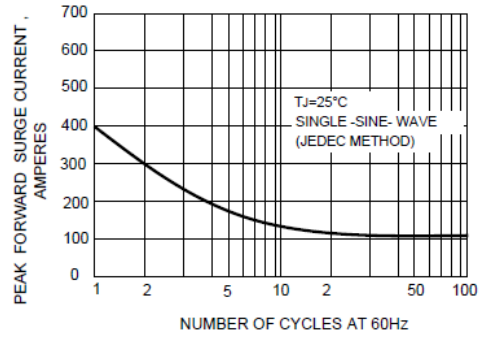


FIG.3-TYPICAL FORWARD CHARACTERISTICS

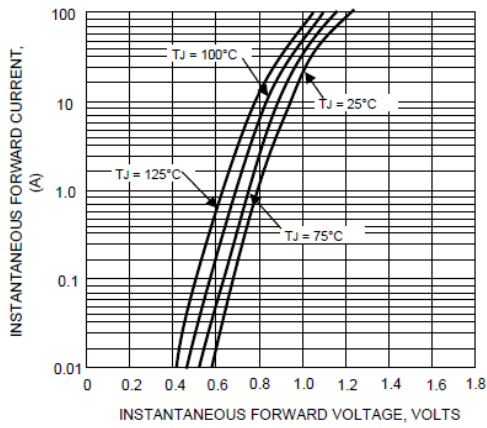


FIG.4-TYPICAL REVERSE CHARACTERISTICS

