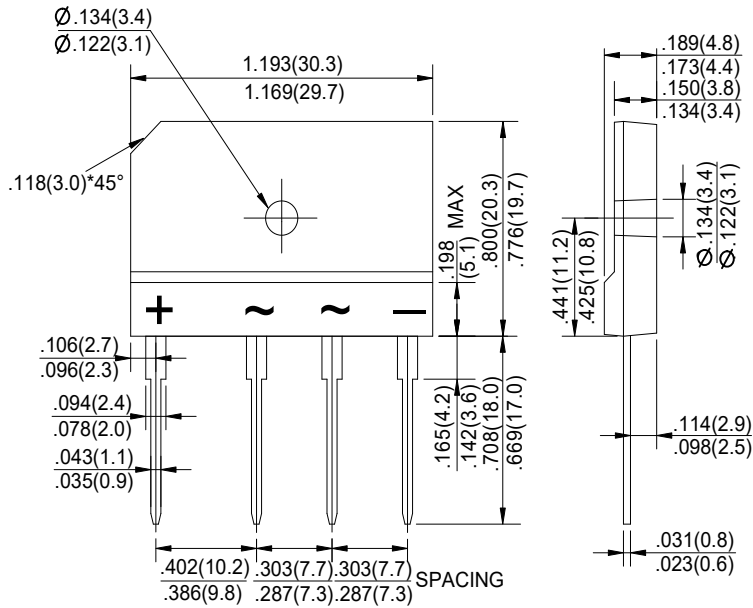


GLASS PASSIVATED BRIDGE RECTIFIERS
REVERSE VOLTAGE - 50 to 1000Volts
FORWARD CURRENT - 50 Amperes



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-0

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

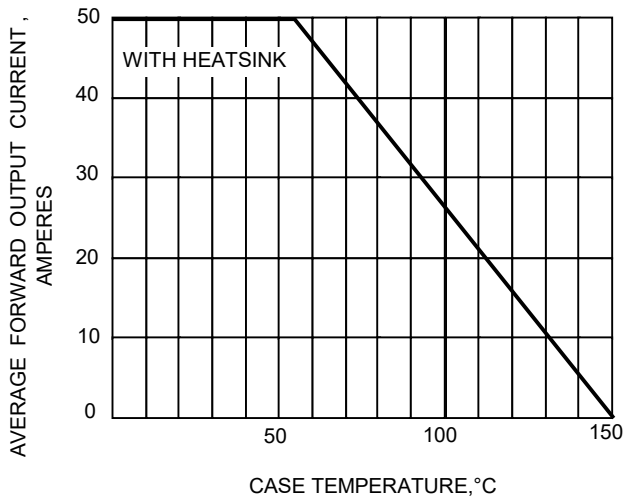
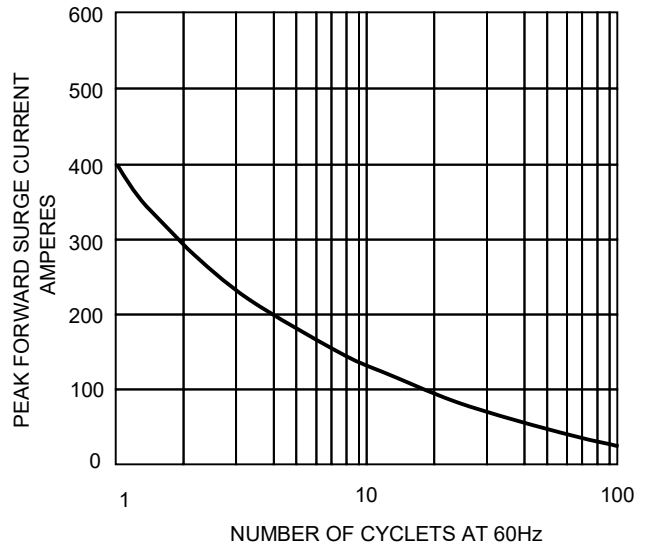
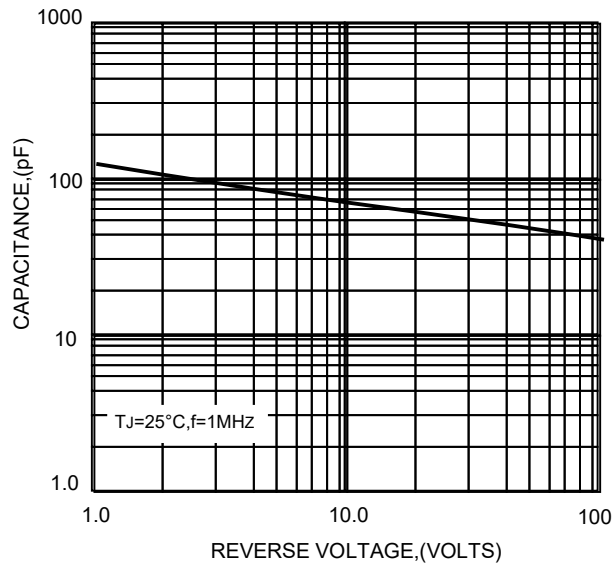
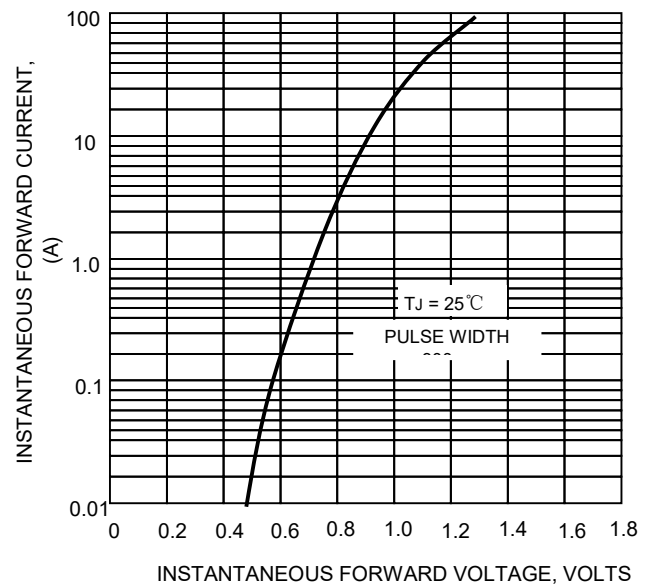
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Package: GBJ

CHARACTERISTICS	SYMBOL	GBJ 50005	GBJ 5001	GBJ 5002	GBJ 5004	GBJ 5006	GBJ 5008	GBJ 5010	UNIT
Maximum Recurrent 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 (with heatsink Note 2)	I <sub(av)< sub=""></sub(av)<>	50.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed 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°C at Rated DC Blocking Voltage @ T _J =125°C	I _R	10.0 500							uA
I ² t Rating for Fusing (t<8.3ms)	I ² t	510							A ² s
Typical Junction Capacitance Per Element (Note1)	C _J	85							pF
Typical Thermal Resistance (Note2)	R _{θJC}	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*300mm*1.6mm cu plate heatsink.

**GLASS PASSIVATED BRIDGE RECTIFIERS
RATING AND CHARACTERISTIC CURVES**
FIG.1- DERATING CURVE OUTPUT RECTIFIED CURRENT

FIG.2-MAXIMUM FORWARD SURGE CURRENT

FIG.3-TYPICAL JUNCTION CAPACITANCE

FIG.4-TYPICAL FORWARD

FIG.5-TYPICAL REVERSE CHARACTERISTICS
