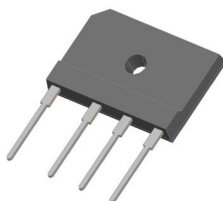


GBJ20005 THRU GBJ2010



GBJ

PRIMARY CHARACTERISTICS

$I_F(AV)$	20A
VRRM	50 V THRU 1000 V
I_{FSM}	280A
I_R	10 μ A
V_F	1.1V
T_J max.	150°C

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

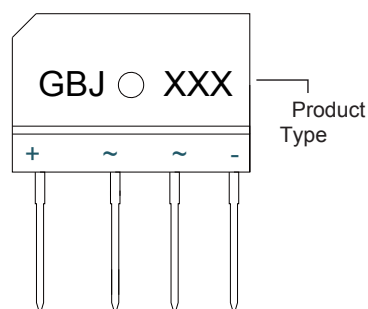
MECHANICAL DATA

Case: GBJ molded plastic body.

Polarity: Symbol molded on body

Mounting Position: Any

Part Marking System



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 current derate by 20%.

CHARACTERISTICS	SYMBOL	GBJ20005	GBJ2001	GBJ2002	GBJ2004	GBJ2006	GBJ2008	GBJ2010	UNIT
Maximum Recurrent 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 (Note 1) @TA=55 °C	$I(AV)$	20.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	IFSM	280							A
Peak Forward Voltage at 10.0A DC	VF	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ=25°C @TJ=100°C	IR	10 500							μ A
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	TSTG	-55 to +150							°C

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

FIG. 1- FORWARD CURRENT DERATING CURVE

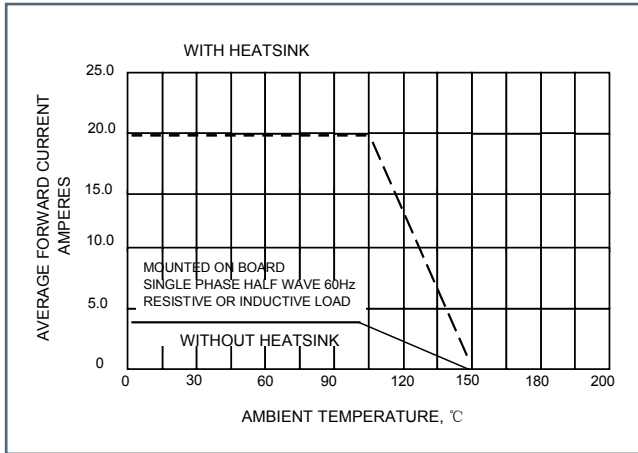


FIG. 2-MAXIMUM NON-REPETITIVE SURGE CURRENT

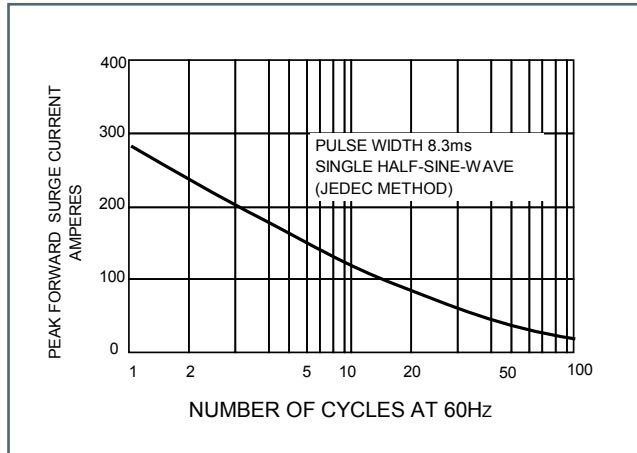


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

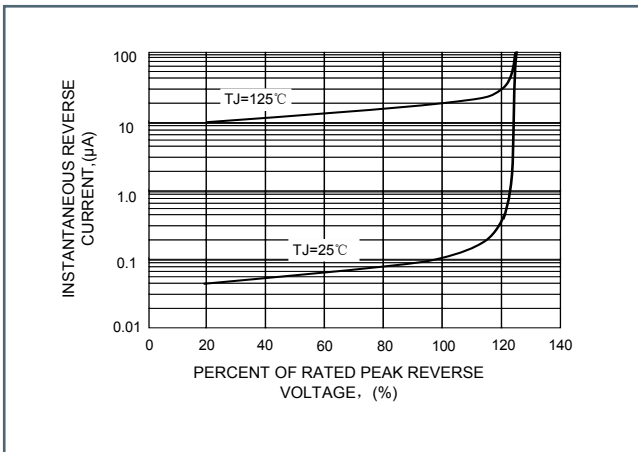
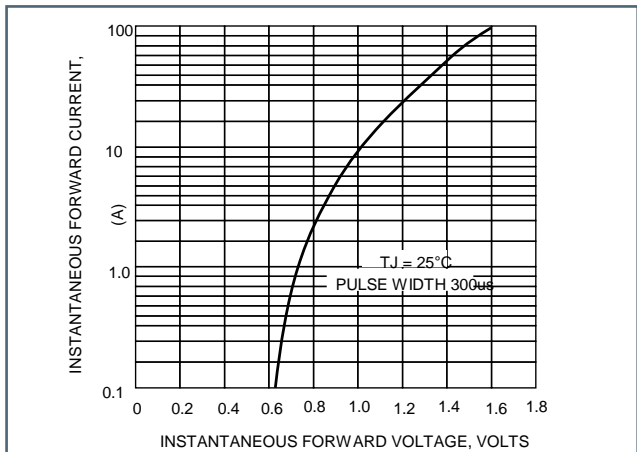
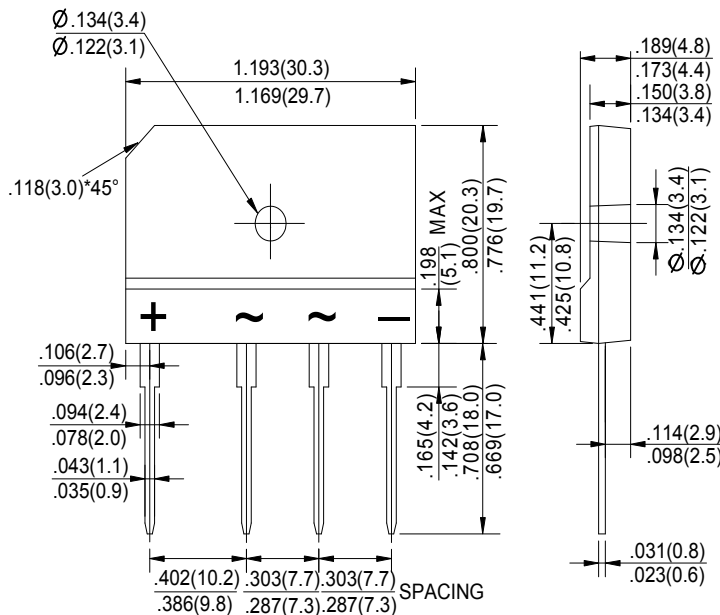


FIG. 4-TYPICAL FORWARD CHARACTERISTICS



Dimensions

Package: GBJ



Dimensions in inches and (millimeters)