

## FEATURES

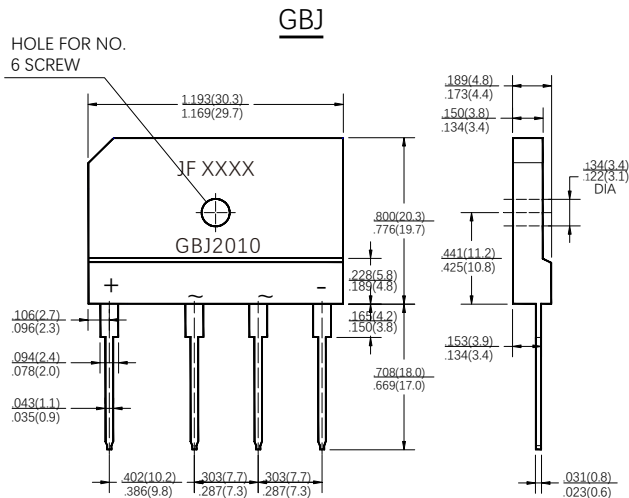
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High current capability
- Low forward voltage drop
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance with RoHS 2015/863/EU

## MECHANICAL DATA

- Case: GBJ molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750, method 2026
- Mounting Position: Any

## TYPICAL APPLICATIONS

Used in AC/DC bridge full wave rectification for SMPS, lighting ballast, adapter, charger, home appliances, office equipment, and telecommunication applications.



Dimensions in inches and (millimeters)

Marking  
JF: Logo  
XXXX: Data code  
GBJ2010: Type

## 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%.)

Parameters	Symbols	GBJ2001	GBJ2002	GBJ2004	GBJ2006	GBJ2008	GBJ2010	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	$V_{RMS}$	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	$I_{FAV}$	20						Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	240						Amps
Rating for fusing (t=8.3ms)	$I^2t$	240						A <sup>2</sup> s
Maximum Instantaneous Forward Voltage at 10A DC	$V_F$	1.1						Volts
Maximum DC Reverse Current at rated DC blocking voltage	$T_J=25^{\circ}C$	5						$\mu A$
	$T_J=125^{\circ}C$	100						$\mu A$
Typical thermal resistance (Note 1)	$R_{\theta JA}$	18						$^{\circ}C/W$
	$R_{\theta JC}$	1.5						$^{\circ}C/W$
Operating temperature range	$T_J$	-55 to +150						$^{\circ}C$
Storage temperature range	$T_{STG}$	-55 to +150						$^{\circ}C$

Note: 1. Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

FIG.1-MAXIMUM FORWARD SURNGE CURRENT

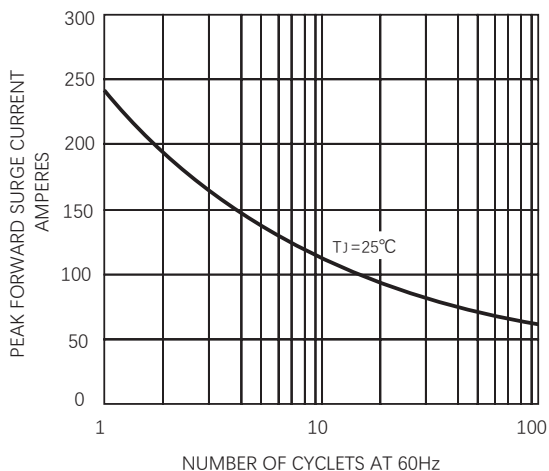


FIG.2-FORWARD CURRENT DERATING CURVE

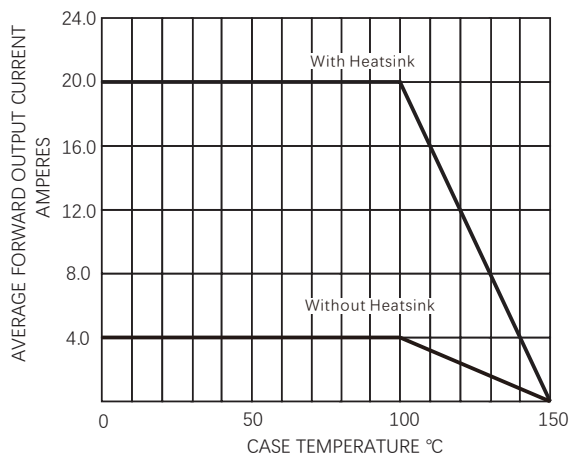


FIG. 3-TYPICAL FORWARD CHARACTERISTICS

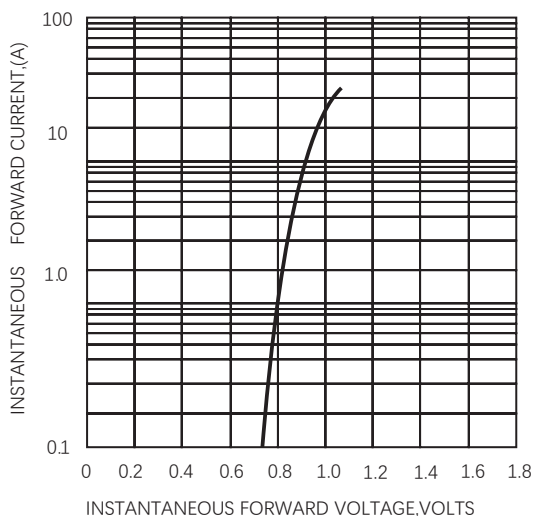
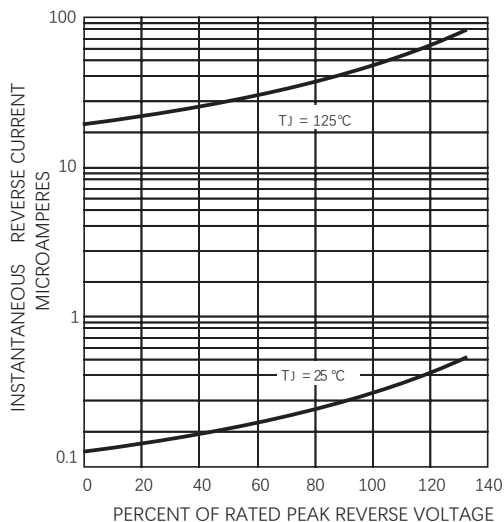


FIG.4 -TYPICAL REVERSE CHARACTERISTICS



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