

FEATURES

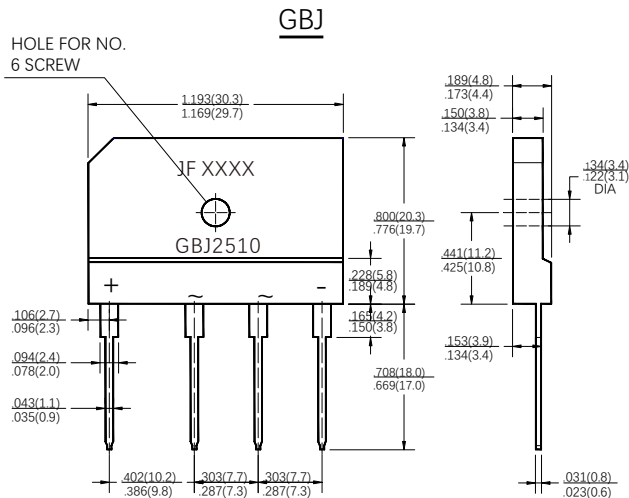
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High current capability
- Low forward voltage drop
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance with RoHS 2015/863/EU

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
GBJ2510: 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	GBJ2501	GBJ2502	GBJ2504	GBJ2506	GBJ2508	GBJ2510	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}	25						Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	300						Amps
Rating for fusing (t=8.3ms)	I^2t	373						A ² s
Maximum Instantaneous Forward Voltage at 12.5A DC	V_F	1.10						Volts
Maximum DC Reverse Current at rated DC blocking voltage	$T_J=25^{\circ}\text{C}$	I_R						5
	$T_J=125^{\circ}\text{C}$							100
Typical thermal resistance (Note 1)	$R_{\theta JA}$	18						°C/W
	$R_{\theta JC}$							
Operating temperature range	T_J	-55 to +150						°C
Storage temperature range	T_{STG}	-55 to +150						°C

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

FIG.1-MAXIMUM FORWARD SURGE CURRENT

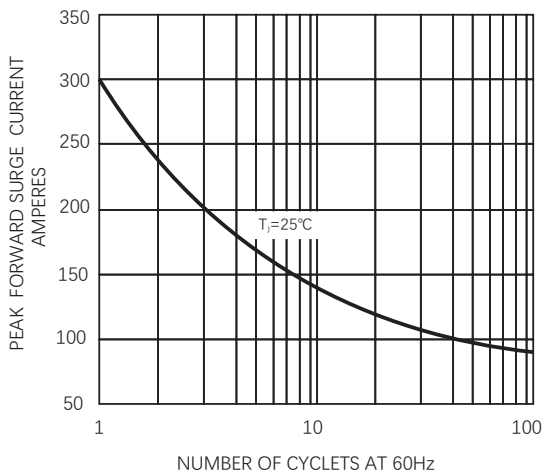


FIG.2 FORWARD CURRENT DERATING CURVE

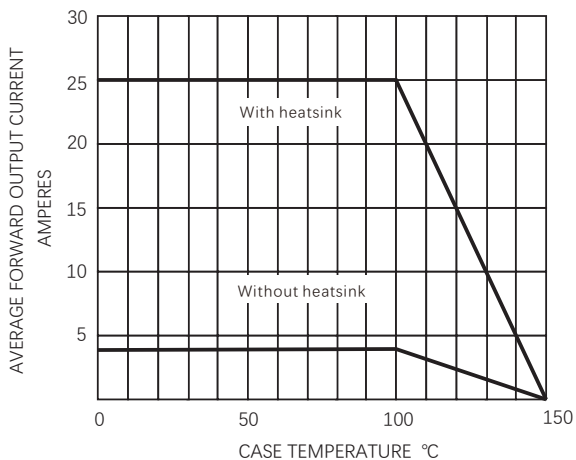


FIG. 3-TYPICAL FORWARD CHARACTERISTICS

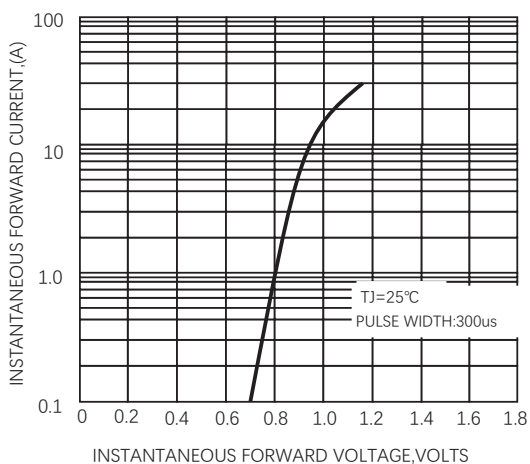
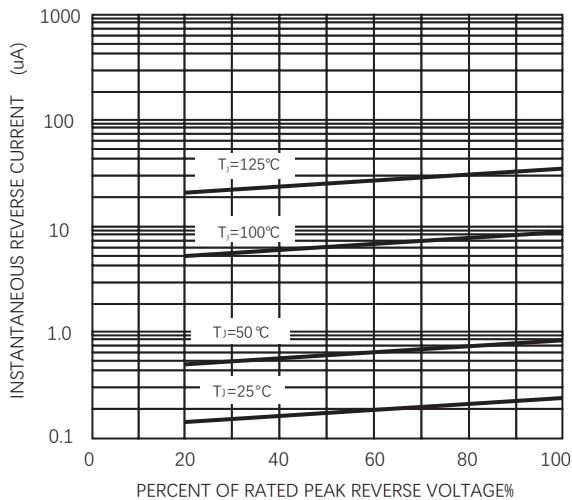


FIG.4 -TYPICAL REVERSE CHARACTERISTICS



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