

Glass Passivated Bridge Rectifiers

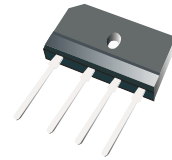
GBJ2506-HF Thru. GBJ2510-HF

Reverse Voltage: 600 to 1000V

Forward Current: 25.0A

RoHS Device

Halogen Free

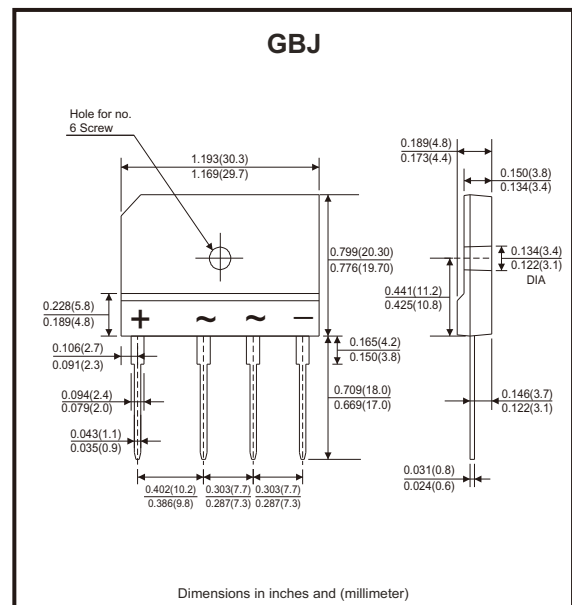


Features

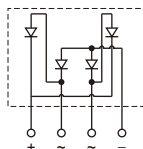
- Thin single in-line package.
- High surge current capability.
- Solder dip 275°C max. 7s, per JESD 22-B106.
- UL recognized file # E349301 

Mechanical Data

- Case: Molded plastic, GBJ
- Epoxy: UL 94V-0 rate flame retardant.
- Polarity: As marked on body.
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102.



Circuit Diagram



Maximum Ratings and Electrical Characteristics (at Ta=25°C unless otherwise specified)

Parameter		Symbol	GBJ2506-HF	GBJ2508-HF	GBJ2510-HF	Unit
Maximum recurrent peak reverse voltage		V _{RRM}	600	800	1000	V
Average rectified output current @60Hz sine wave, R-load	With heatsink T _c =87°C Without heatsink T _a =25°C	I _O	25.0 3.5			A
Surge (non-repetitive) forward current @60Hz half sine wave, 1 cycle, T _J =25°C		I _{FSM}	350			A
Current squared time @ 1ms ≤ t ≤ 8.3ms T _J =25°C, rating of per diode		I ² t	508			A ² s
Maximum instantaneous forward voltage drop per diode	I _{FM} =12.5A	V _F	1			V
Maximum DC reverse current at rated DC blocking voltage per diode	V _{RM} =V _{RRM}	I _{RRM}	5			μA
Junction temperature range		T _J	-55 to +150			°C
Storage temperature range		T _{STG}	-55 to +150			°C
Dielectric strength @ terminals to case, AC 1 minute		V _{dis}	2.5			KV
Mounting torque @ recommend torque: 5kg.cm		T _{or}	8			kg.cm
Thermal resistance	Between junction and ambient, without heatsink	R _{θJA}	22			°C/W
	Between junction and case, with heatsink	R _{θJC}	1.0			°C/W

Company reserves the right to improve product design , functions and reliability without notice.

REV:A

Rating and Characteristics Curves (GBJ2506-HF Thru. GBJ2510-HF)

Fig.1 - I_o — T_c Curve

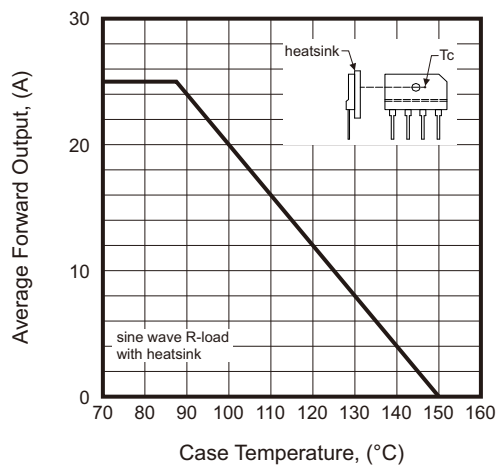


Fig.2 - Surge Forward Current Capability

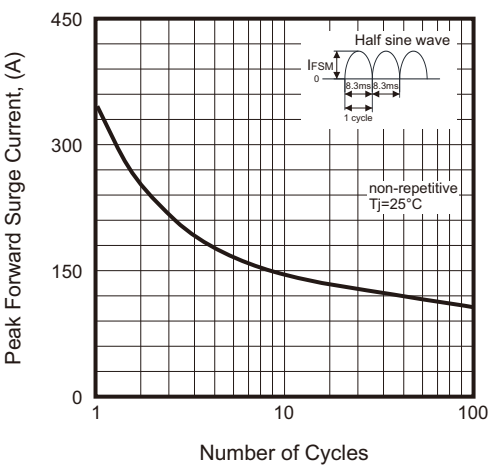


Fig.3 - Forward Voltage

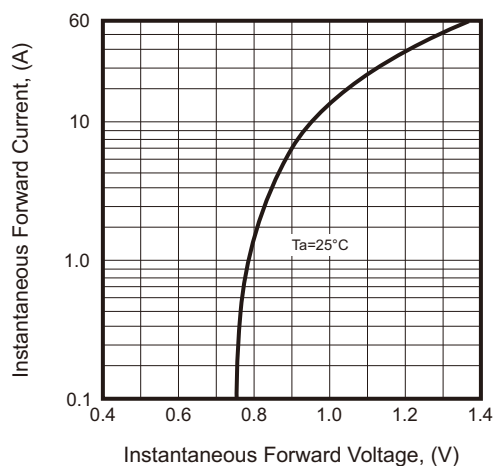
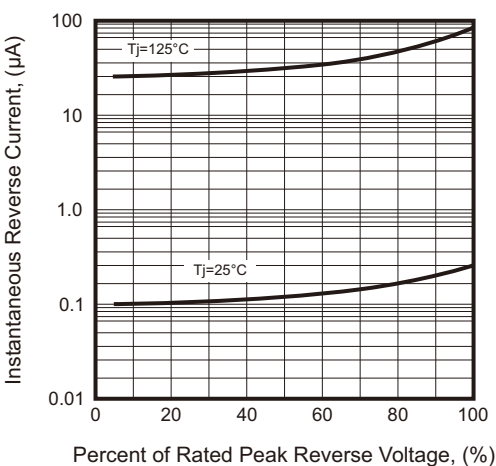
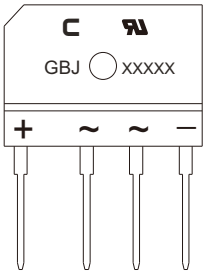


Fig.4 - Typical Reverse Characteristics



Marking Code

Part Number	Marking code
GBJ2506-HF	GBJ2506A
GBJ2508-HF	GBJ2508A
GBJ2510-HF	GBJ2510A



XXXXX = Product type marking code
C = Comchip Logo

Standard Packaging

Case Type	TUBE PACK	
	TUBE (pcs)	Carton (pcs)
GBJ	15	750

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