

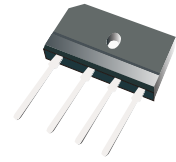
## GBJ2506-HF Thru. GBJ2510-HF

Reverse Voltage: 600 to 1000V

Forward Current: 25.0A

RoHS Device

Halogen Free

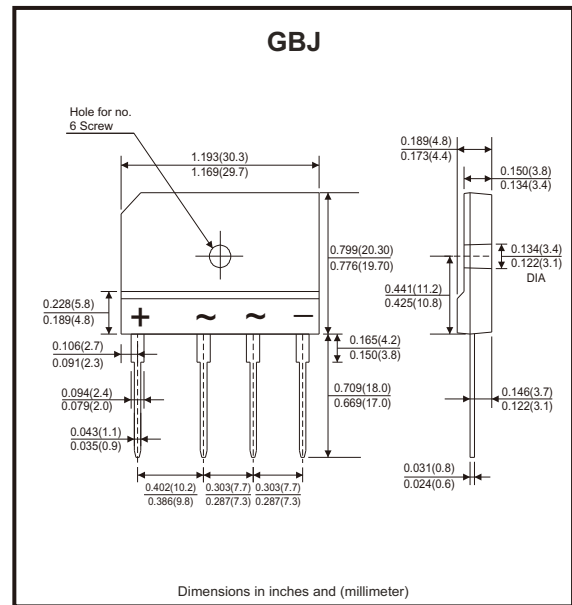


### Features

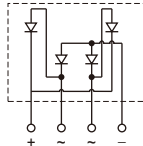
- Thin single in-line package.
- High surge current capability.
- Solder dip 275°C max. 7s, per JESD 22-B106.
- UL recognized file # E349301

### 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	$I_O$	25.0		1000	A
With heatsink Tc=87°C		25.0			
Without heatsink Ta=25°C	3.5				
Surge (non-repetitive) forward current @60Hz half sine wave, 1 cycle, Tj=25°C	$I_{FSM}$	350			A
Current squared time @ 1ms ≤ t ≤ 8.3ms Tj=25°C, rating of per diode	$I^2t$	508			A <sup>2</sup> 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

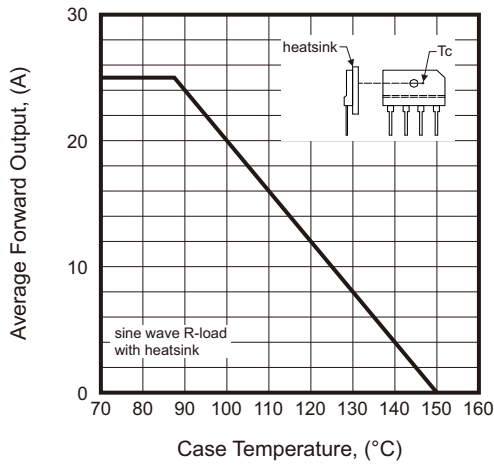


Fig.2 - Surge Forward Current Capability

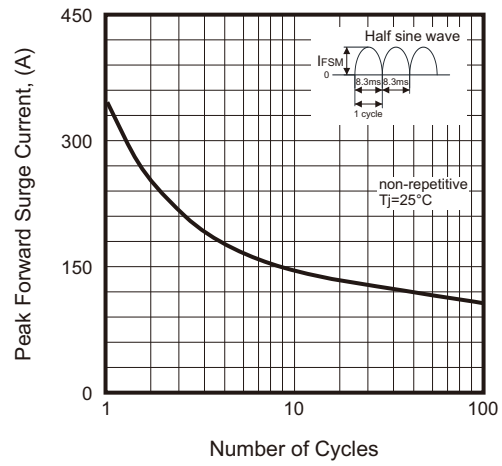


Fig.3 - Forward Voltage

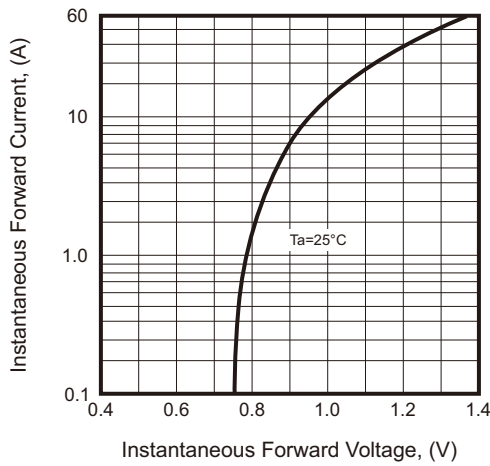
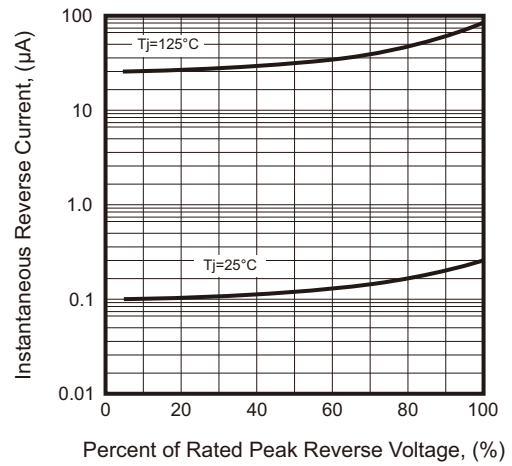
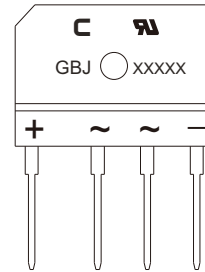


Fig.4 - Typical Reverse Characteristics



## 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