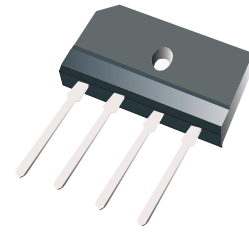


## GBJ25005-G Thru. GBJ2510-G

Reverse Voltage: 50 to 1000V

Forward Current: 25.0A

RoHS Device

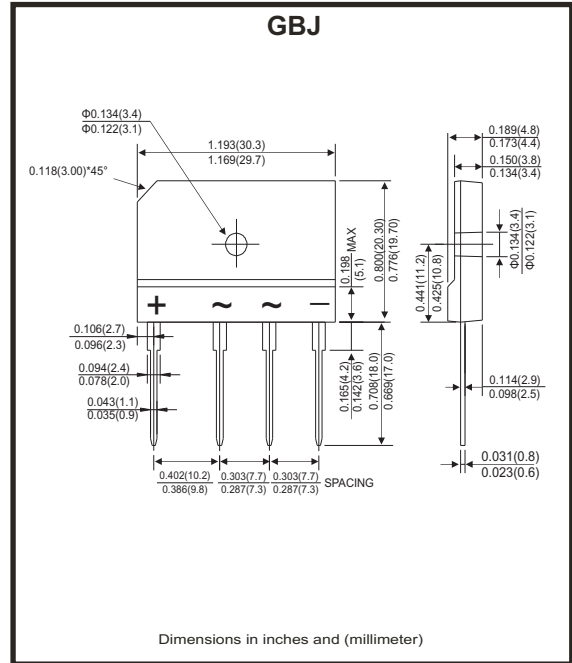


### Features

- Rating to 1000V PRV.
- Ideal for printed circuit board
- Low forward voltage drop, high current capability.

### Mechanical Data

- Epoxy: U/L 94-V0 rate flame retardant.
- Case: Molded plastic, GBJ
- Mounting position: Any
- Weight: 6.81grams



### 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%

Parameter	Symbol	GBJ 25005-G	GBJ 2501-G	GBJ 2502-G	GBJ 2504-G	GBJ 2506-G	GBJ 2508-G	GBJ 2510-G	Unit	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V	
Maximum Average Forward (With heatsink Note2), Rectified Current @Tc=100°C (without hestsink)	$I_{AV}$					25.0				A
						4.2				
Peak Forward Surage Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	$I_{FSM}$					350				A
Maximum Forward Voltage at 12.5A DC	$V_F$					1.1				V
Maximum DC Reverse Current @Tj=25°C At Rate DC Blocking Voltage @Tj=125°C	$I_R$					10.0				$\mu A$
						500				
I <sup>2</sup> T Rating for Fusing(t<8.3ms)	$I^2t$					510				A <sup>2</sup> s
Typical Junction Capacitandce Per Element (Note 1)	$C_J$					85				pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$					0.6				°C/W
Operating Temperature Range	$T_J$					-55 to +150				°C
Storage Temperature Range	$T_{STG}$					-55 to +150				°C

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Device mounted on 300mm\*300mm\*1.6mm Cu plate heatsink.

## Rating and Characteristics Curves (GBJ25005-G Thru. GBJ2510-G)

Fig. 1- Forward Current Derating Curve

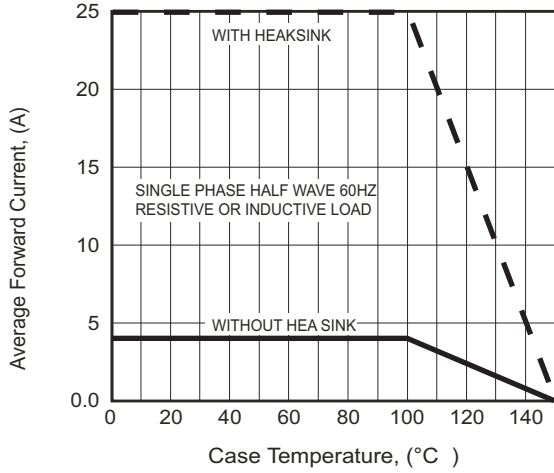


Fig. 2- Typical Forward Characteristics

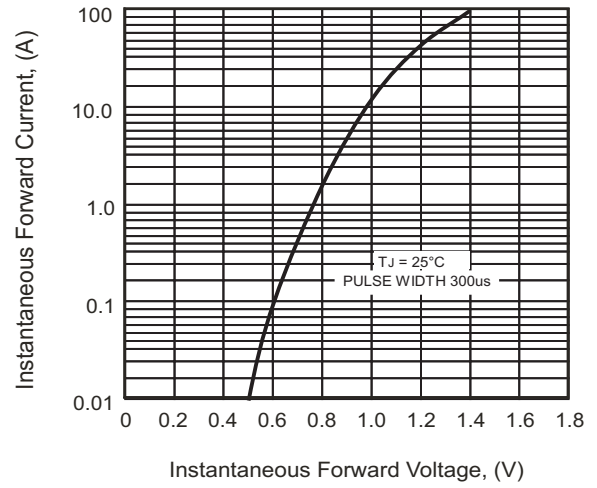


Fig. 3- Maximum Non-Repetitive Surge Current

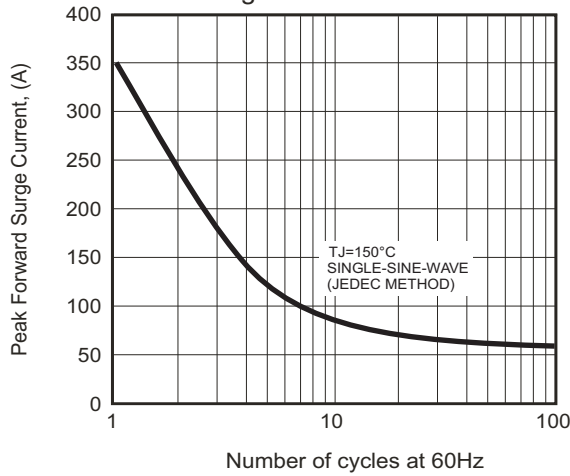


Fig. 4- Typical Junction Capacitance

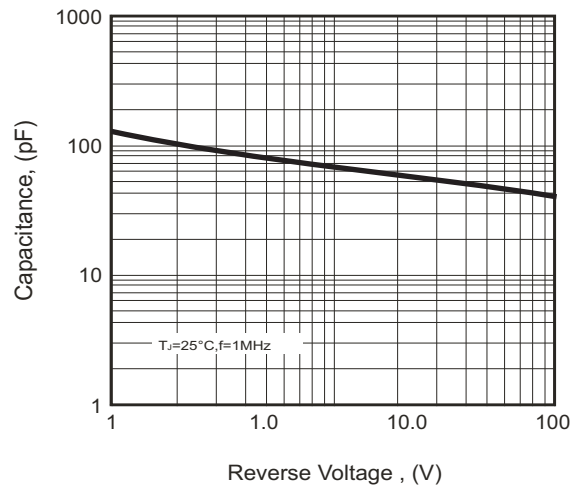
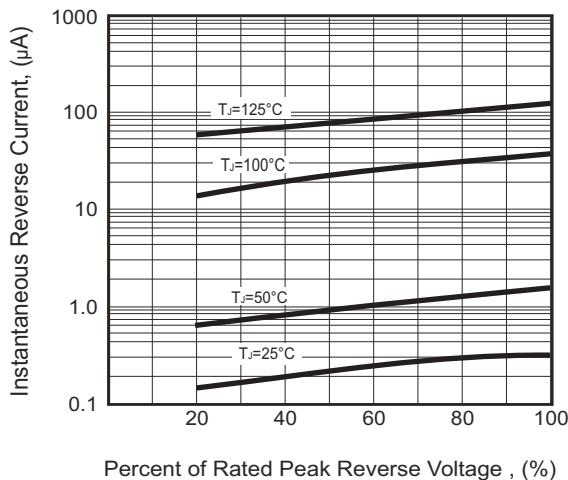
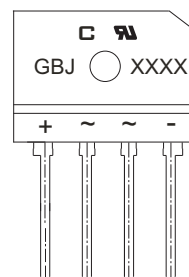


Fig.5- Typical Reverse Characteristics



## Marking Code

Part Number	Marking code
GBJ25005-G	GBJ25005
GBJ2501-G	GBJ2501
GBJ2502-G	GBJ2502
GBJ2504-G	GBJ2504
GBJ2506-G	GBJ2506
GBJ2508-G	GBJ2508
GBJ2510-G	GBJ2510



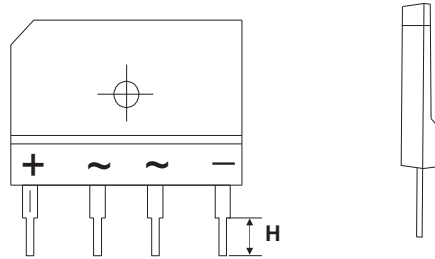
XXX / XXXX = Product type marking code  
 □ = Comchip Logo

## Standard Packaging

Case Type	TUBE PACK (B/P)		
	TUBE (pcs)	BOX (pcs)	CARTON (pcs)
GBJ	15	750	1,500

## GBJ25005-03-G Thru. GBJ2510-06-G

### Package outline(Cuts the foot)

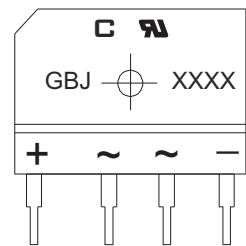


H	4.5±0.5 (mm)	4.0±0.5 (mm)	10.0±0.5 (mm)	5.0±0.5 (mm)
Part Number				
GBJ25005-G	GBJ25005-03-G	GBJ25005-04-G	GBJ25005-05-G	GBJ25005-06-G
GBJ2501-G	GBJ2501-03-G	GBJ2501-04-G	GBJ2501-05-G	GBJ2501-06-G
GBJ2502-G	GBJ2502-03-G	GBJ2502-04-G	GBJ2502-05-G	GBJ2502-06-G
GBJ2504-G	GBJ2504-03-G	GBJ2504-04-G	GBJ2504-05-G	GBJ2504-06-G
GBJ2506-G	GBJ2506-03-G	GBJ2506-04-G	GBJ2506-05-G	GBJ2506-06-G
GBJ2508-G	GBJ2508-03-G	GBJ2508-04-G	GBJ2508-05-G	GBJ2508-06-G
GBJ2510-G	GBJ2510-03-G	GBJ2510-04-G	GBJ2510-05-G	GBJ2510-06-G

Dimensions in inches and (millimeter)

### Marking Code

4.5±0.5 (mm)	4.0±0.5 (mm)	10.0±0.5 (mm)	5.0±0.5 (mm)	Marking code
GBJ25005-03-G	GBJ25005-04-G	GBJ25005-05-G	GBJ25005-06-G	GBJ25005
GBJ2501-03-G	GBJ2501-04-G	GBJ2501-05-G	GBJ2501-06-G	GBJ2501
GBJ2502-03-G	GBJ2502-04-G	GBJ2502-05-G	GBJ2502-06-G	GBJ2502
GBJ2504-03-G	GBJ2504-04-G	GBJ2504-05-G	GBJ2504-06-G	GBJ2504
GBJ2506-03-G	GBJ2506-04-G	GBJ2506-05-G	GBJ2506-06-G	GBJ2506
GBJ2508-03-G	GBJ2508-04-G	GBJ2508-05-G	GBJ2508-06-G	GBJ2508
GBJ2510-03-G	GBJ2510-04-G	GBJ2510-05-G	GBJ2510-06-G	GBJ2510



**XXX / XXXX = Product type marking code**

**☐ = Compchip Logo**

### Standard Packaging

Case Type	TUBE PACK (B/P)		
	TUBE (pcs)	BOX (pcs)	CARTON (pcs)
GBJ	15	750	1,500