



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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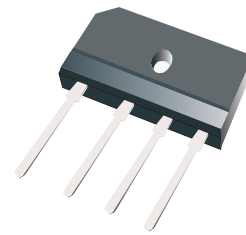


GBJ25005-G Thru. GBJ2510-G

Reverse Voltage: 50 to 1000V

Forward Current: 25.0A

RoHS Device

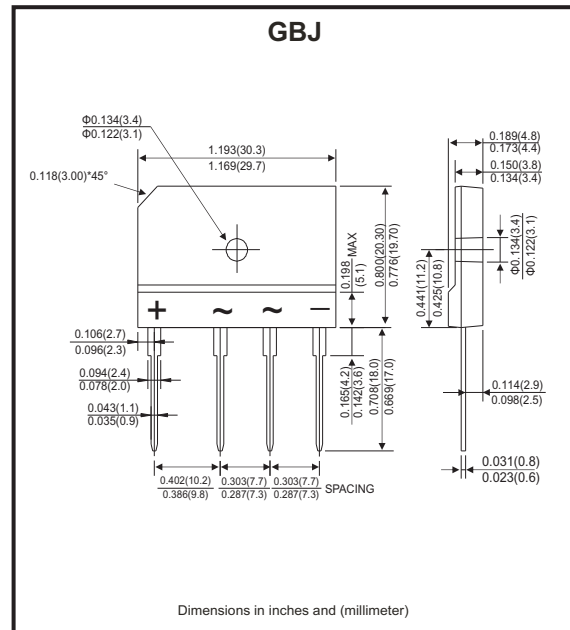


Features

- Rating to 1000V PRV.
- Ideal for printed circuit board.
- Low forward voltage drop.
- High current capability.
- UL recognized file # E349301

Mechanical Data

- Epoxy: UL 94V-0 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 Note 2) Rectified Current @ $T_c=100^\circ\text{C}$ (without heatsink)	$I_{(AV)}$					25.0				A
Peak Forward Surge 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					1.0				V
Maximum DC Reverse Current @ $T_J=25^\circ\text{C}$ At Rate DC Blocking Voltage @ $T_J=125^\circ\text{C}$	I_R					10.0				μA
$I^2 T$ Rating for Fusing ($t < 8.3\text{ms}$)	$I^2 t$					508				A^2s
Typical Junction Capacitance Per Element (Note 1)	C_J					85				pF
Typical Thermal Resistance	$R_{\theta JC}$					0.6				$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J					-55 to +150				$^\circ\text{C}$
Storage Temperature Range	T_{STG}					-55 to +150				$^\circ\text{C}$

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.

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

REV: F

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

Fig.1 - Forward Current Derating Curve

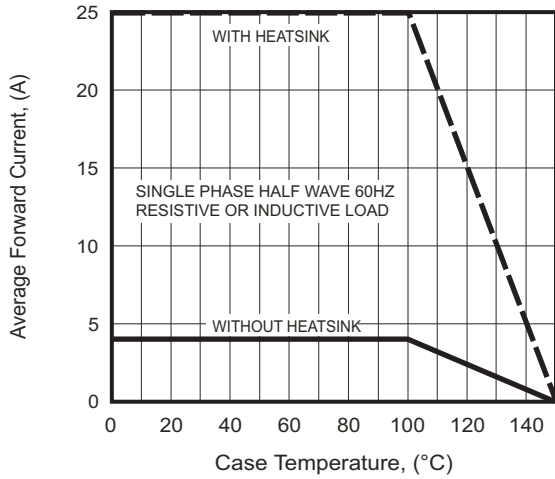


Fig.2 - Maximum Non-Repetitive Surge Current

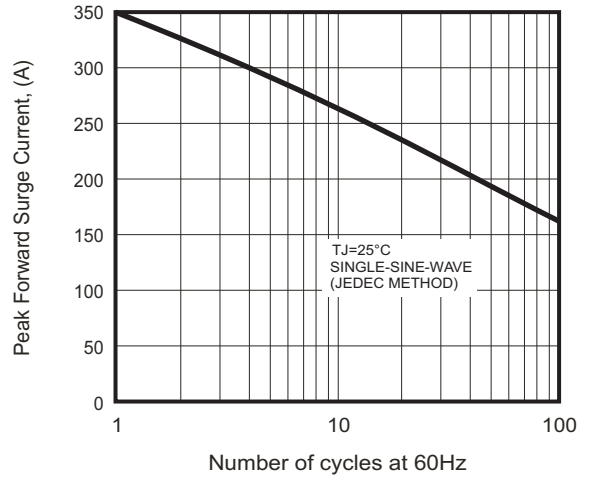


Fig.3 - Typical Junction Capacitance

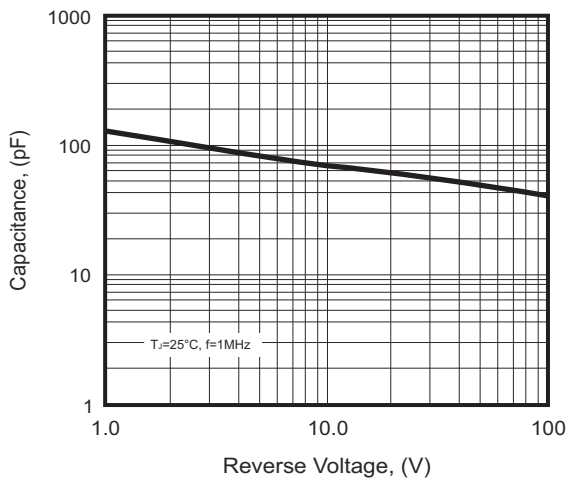


Fig.4 - Typical Forward Characteristics

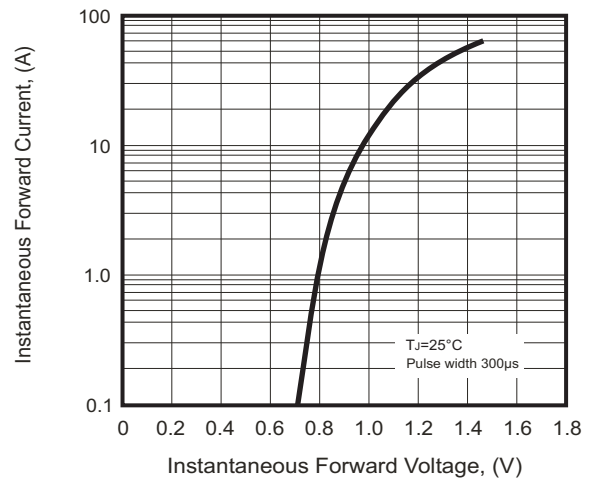
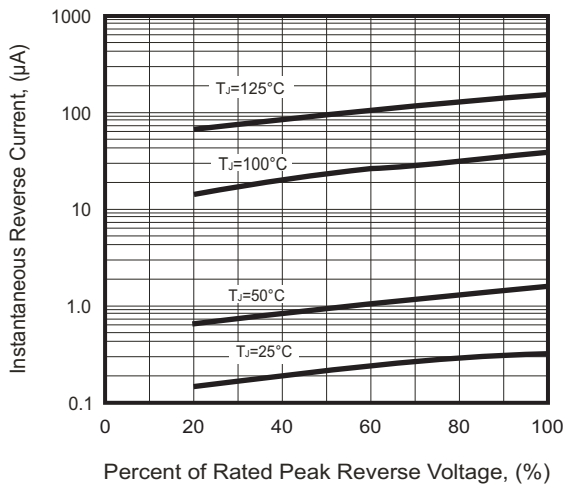
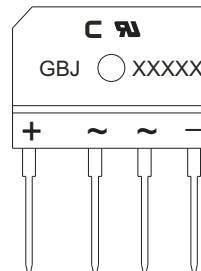


Fig.5 - Typical Reverse Characteristics



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



XXXXX / XXXX = Product type marking code

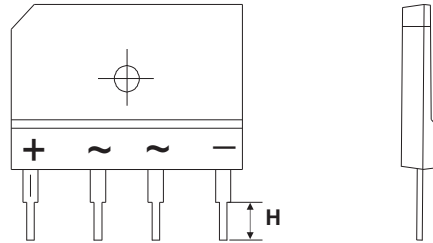
C = Comchip Logo

Standard Packaging

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

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

Package outline(Cuts the foot)

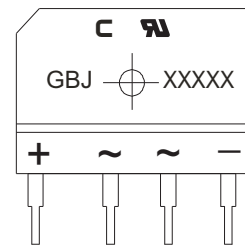


H	4.5±0.5 (mm)	4.0±0.5 (mm)	10.0±0.5 (mm)	5.0±0.5 (mm)
Part Number				
GBJ25005-G	GBJ25005-03-G	GBJ25005-04-G	GBJ25005-05-G	GBJ25005-06-G
GBJ2501-G	GBJ2501-03-G	GBJ2501-04-G	GBJ2501-05-G	GBJ2501-06-G
GBJ2502-G	GBJ2502-03-G	GBJ2502-04-G	GBJ2502-05-G	GBJ2502-06-G
GBJ2504-G	GBJ2504-03-G	GBJ2504-04-G	GBJ2504-05-G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



XXXXX / XXXX = Product type marking code

C = Compchip Logo

Standard Packaging

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

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REV: F