

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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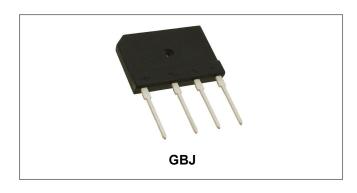






GBJ25005-GBJ2510

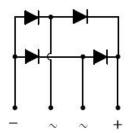
Single-Phase 25.0A Glass Passivated Bridge Rectifier



Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: GBJ, Molded plastic
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting Position: Any
- Lead Free: For RoHS / Lead Free Version

Maximum Ratings @TA=25°C unless otherwise specified

Type Number	Symbol	GBJ 25005	GBJ 2501	GBJ 2502	GBJ 2504	GBJ 2506	GBJ 2508	GBJ 2510	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _{DC}	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average forward rectified output current $@T_A = 100^{\circ}C$ $I_{(AV)}$ 25.0						А			
Peak Forward Surge Current,8.3ms single half- sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	300					А		

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Electrical Characteristics@TA=25°C unless otherwise specified

Type Number	Symbol	GBJ 25005	GBJ 2501	GBJ 2502	GBJ 2504	GBJ 2506	GBJ 2508	GBJ 2510	Units
Forward Voltage (per element) @I _F =12.5A @I _F =25A	V _F	1.0 1.1			V				
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _{RM}	I _{RM} 10.0 500			μA				
Typical Junction Capacitance(per leg) (Note 1)	CJ	85						pF	

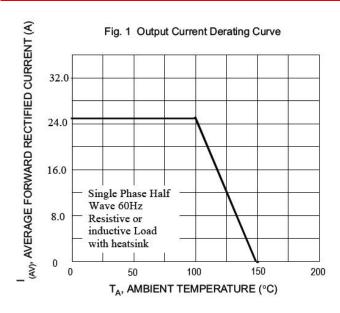
^{*} Pulse width < 300 µs, duty cycle < 2%

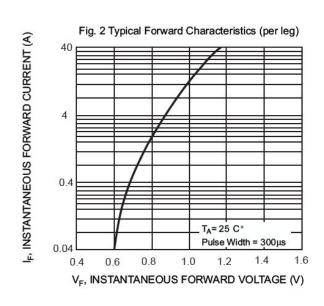
Thermal-Mechanical Specifications:

Type Number	Symbol	GBJ 25005	GBJ 2501	GBJ 2502	GBJ 2504	GBJ 2506	GBJ 2508	GBJ 2510	Units
Between Junction and Ambient, Without heatsink Between Junction and Case, Without heatsink	$R_{ heta JA} \ R_{ heta Jc}$	22 1.0					°C/W		
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150					ů		

Note: 1- Measured at 1 MHZ and applied reverse voltage of 4.0 VDC.

Ratings and Characteristics Curves



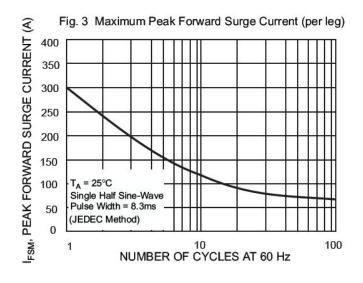


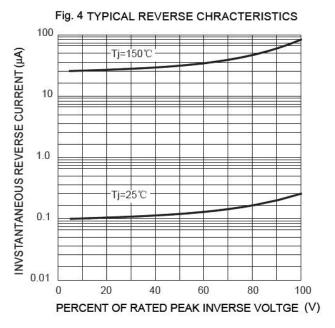
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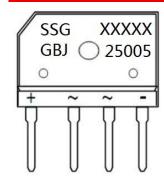


Ordering Information

Device	Package	Plating	Shipping
GBJ25005 THRU GBJ2510	GBJ(Pb-Free)	Pure Sn	15pcs / tube

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



Where XXXXX is YYWWL

 SSG
 = SSG

 YY
 = Year

 WW
 = Week

 L
 = Lot Number

 GBJ25005
 = Type Number

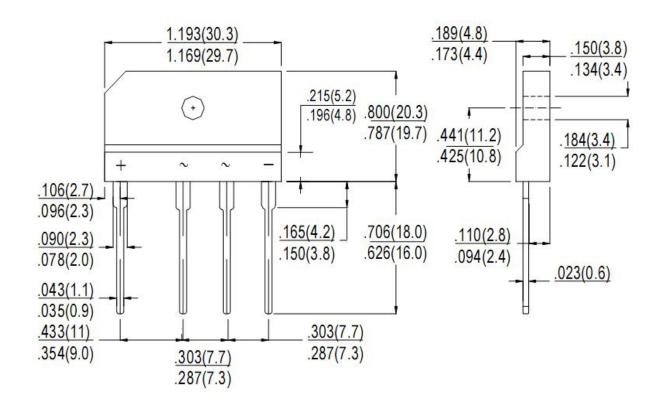
Cautions: Molding resin Epoxy resin UL:94V-0







Mechanical Dimensions GBJ (Inches/Millimeters)









DISCLAIMER:

- 1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the SMC Diode Solutions sales department for the latest version of the datasheet(s).
- 2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.
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