

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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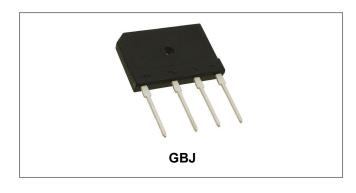






GBJ20005-GBJ2010

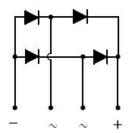
Single-Phase 20.0A Glass Passivated Bridge Rectifier



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
- Delevitor as were
- Polarity: as marked on caseMounting Position: Any
- Lead Free: For RoHS / Lead Free Version

Maximum Ratings @TA=25°C unless otherwise specified

Type Number	Symbol	GBJ 20005	GBJ 2001	GBJ 2002	GBJ 2004	GBJ 2006	GBJ 2008	GBJ 2010	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°C	I _(AV)	20.0						A	
Peak Forward Surge Current,8.3ms single half- sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	240					А		

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 sales@ smc-diodes.com







Electrical Characteristics@TA=25°C unless otherwise specified

Type Number	Symbol	GBJ 20005	GBJ 2001	GBJ 2002	GBJ 2004	GBJ 2006	GBJ 2008	GBJ 2010	Units
Forward Voltage (per element) @I _F =10A @I _F =20A	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}	10.0 500					μА		
Typical Junction Capacitance(per leg) (Note 1)	CJ	65						pF	

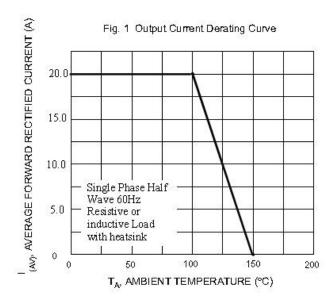
^{*} Pulse width < 300 µs, duty cycle < 2%

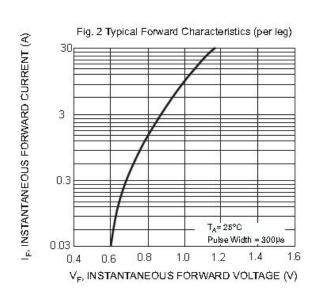
Thermal-Mechanical Specifications:

Type Number	Symbol	GBJ 20005	GBJ 2001	GBJ 2002	GBJ 2004	GBJ 2006	GBJ 2008	GBJ 2010	Units
Between Junction and Ambient, Without heatsink Between Junction and Case, Without heatsink	$R_{ heta JA} \ R_{ heta Jc}$	22 1.5			°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



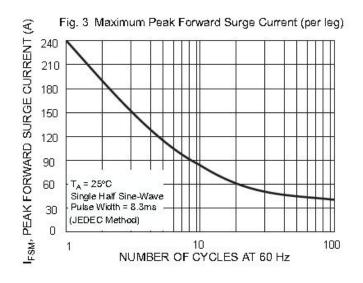


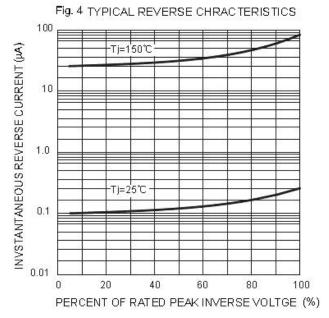
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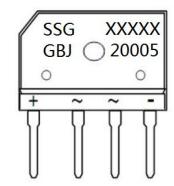


Ordering Information

Device	Package	Plating	Shipping
GBJ20005 THRU GBJ2010	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

 GBJ20005
 = Type Number

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

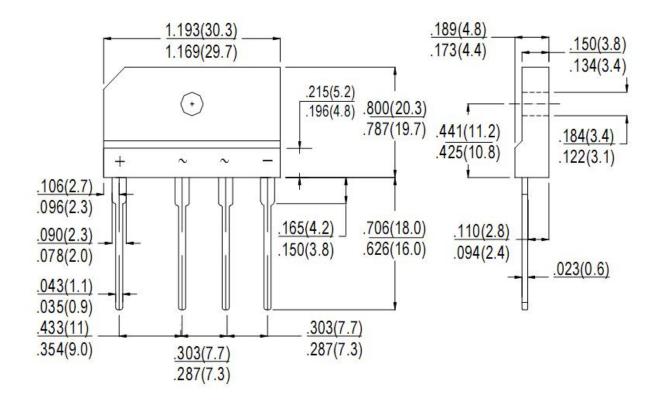
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Mechanical Dimensions GBJ (Inches/Millimeters)









DISCLAIMER:

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