



GBJ25005 THRU GBJ2510

Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 25 Amperes

Features

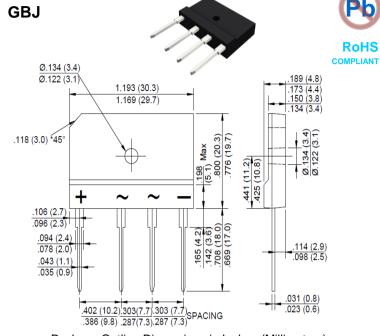
- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability
- AEC-Q101 qualified

Mechanical Data

- Polarity: Symbol marked on body
- Mounting position: Any

Applications

 General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.



Package Outline Dimensions in Inches (Millimeters)

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%.

Symbol	GBJ	GBJ	GBJ	GBJ	GBJ	GBJ	GBJ	Unit
Cymbol	25005	2501	2502	2504	2506	2508	2510	
VRRM	50	100	200	400	600	800	1000	
VRMS	35	70	140	280	420	560	700	٧
VDC	50	100	200	400	600	800	1000	
Ima	25.0 4.2							А
I(AV)								
IFOM	350							А
IF5W								
l ² t	508							A ² s
VF	1.0							V
ls.	5.0 500							μА
IK								
CJ	85							pF
RθJA	Rела 4.5							
Rejc	0.6							°C/W
Røjl	1.5							
TJ	-55 to +150							$^{\circ}$
Tstg	-55 to +150							$^{\circ}$
	VRMS VDC I(AV) IFSM I ² t VF IR CJ Reja Rejc Rejl TJ	Symbol 25005	Symbol 25005 2501 VRRM 50 100 VRMS 35 70 VDC 50 100 I(AV) IFSM I*FSM I*T VF IR CJ ReJA ReJC ReJL TJ TJ	Symbol 25005 2501 2502 VRM 50 100 200 VRMS 35 70 140 VDC 50 100 200 I(AV) IFSM IFSM I** VF IR ReJA ReJC ReJL TJ TJ	Symbol 25005 2501 2502 2504 VRRM 50 100 200 400 VRMS 35 70 140 280 VDC 50 100 200 400 I(AV) 25.0 4.2 IFSM 350 I²t 508 VF 1.0 IR 5.0 500 500 CJ 85 ReJA 4.5 ReJC 0.6 ReJL 1.5 TJ -55 to +150	Symbol 25005 2501 2502 2504 2506 VRM 50 100 200 400 600 VRMS 35 70 140 280 420 VDC 50 100 200 400 600 I(AV) 25.0 4.2 IFSM 350 4.2 IFSM 508 500 VF 1.0 5.0 IR 500 500 CJ 85 85 ReJA 4.5 0.6 ReJL 1.5 1.5 TJ -55 to +150	Symbol 25005 2501 2502 2504 2506 2508 VRM 50 100 200 400 600 800 VRMS 35 70 140 280 420 560 VDC 50 100 200 400 600 800 I(AV) 25.0 4.2 </td <td>Symbol 25005 2501 2502 2504 2506 2508 2510 VRRM 50 100 200 400 600 800 1000 VRMS 35 70 140 280 420 560 700 VDC 50 100 200 400 600 800 1000 I(AV) 25.0 4.2 4</td>	Symbol 25005 2501 2502 2504 2506 2508 2510 VRRM 50 100 200 400 600 800 1000 VRMS 35 70 140 280 420 560 700 VDC 50 100 200 400 600 800 1000 I(AV) 25.0 4.2 4

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

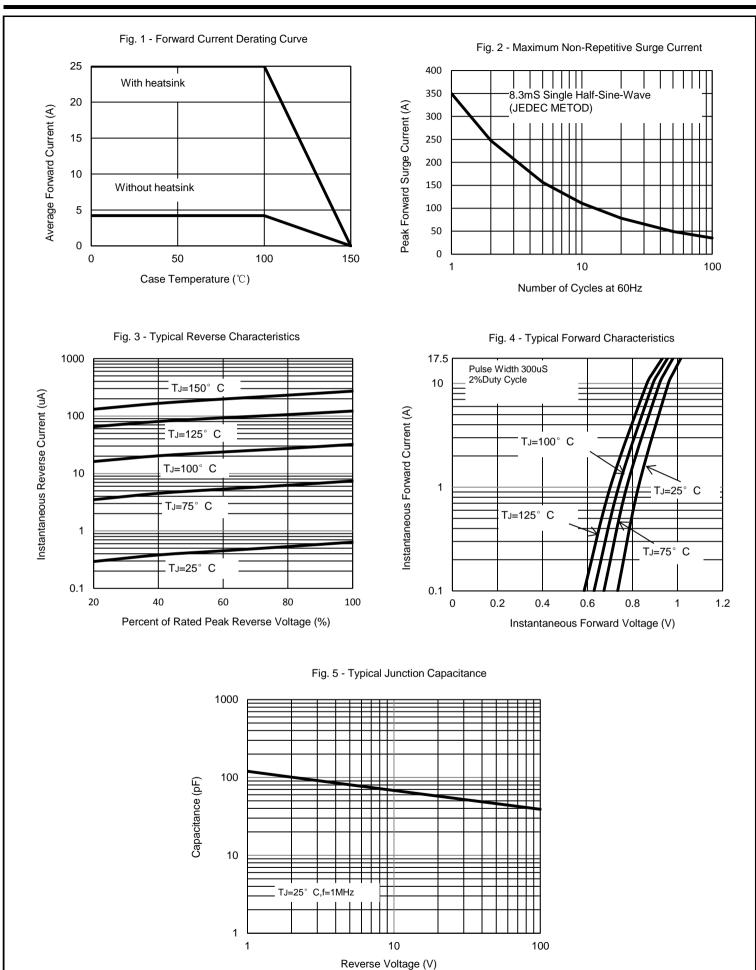
- 2.Device mounted on 300mm*300mm*1.6mm Cu plate heatsink.
- 3. The typical data above is for reference only

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The curve above is for reference only.



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