



GBJ8005 THRU GBJ810

Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 8.0 Amperes

Features

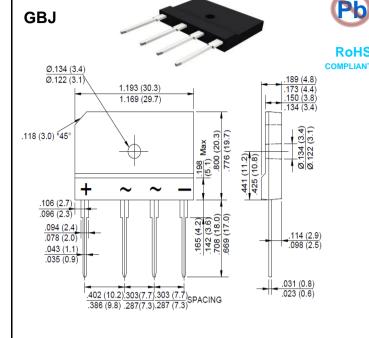
- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability
- •Meet UL flammability classification 94V-0
- AEC-Q101 qualified

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℃ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	GBJ8005	GBJ801	GBJ802	GBJ804	GBJ806	GBJ808	GBJ810	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current (with heatsink Note 2)	I(AV)	8.0						Α	
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	IFSM	200							Α
I ² t Rating for Fusing (t<8.3mS)	l ² t	166						A ² s	
Peak Forward Voltage per Diode at 4A DC	VF	1.0						V	
Maximum DC Reverse Current at Rated @TJ=25°C	l _D	5.0							μA
DC Blocking Voltage per Diode @Tյ=125℃	IK.	500							μΛ
Typical Junction Capacitance per Diode (Note1)	Сл	55						pF	
Typical Thermal Resistance to Ambient (Note2)	RθJA	9							
Typical Thermal Resistance to case (Note2)	Rejc	1.8						°C/W	
Typical Thermal Resistance to lead (Note2)	Røjl	1.5							
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$

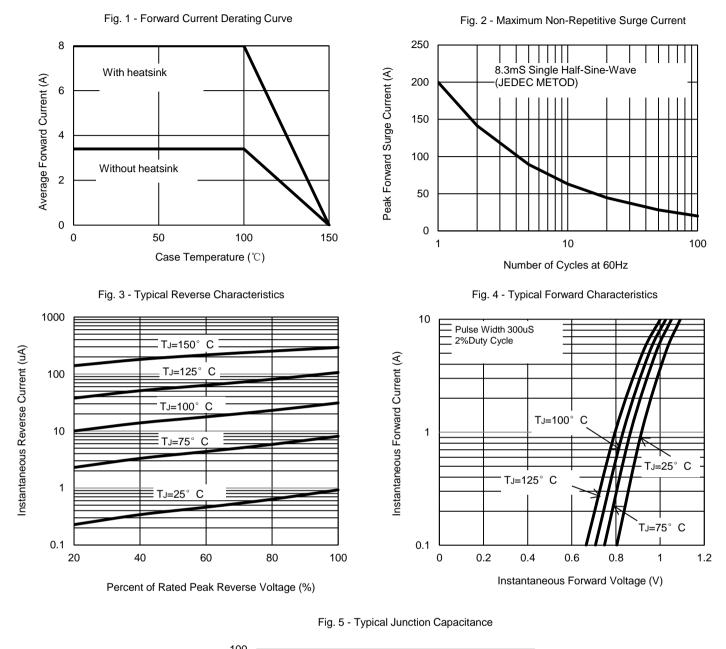
Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

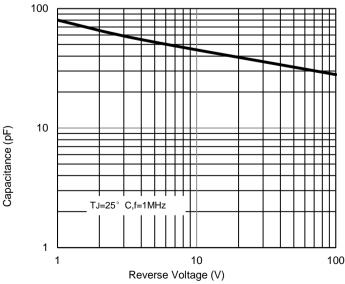
- 2.Device mounted on 75mm*75mm*1.6mm Cu plate heatsink.
- 3. The typical data above is for reference only

GBJ8*-U-00-A001

Rev. 11, 20-Dec-2019







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