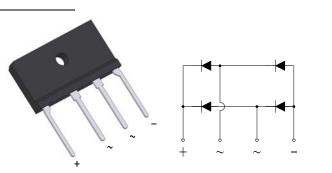


GBJL8J THRU GBJL8M

Glass Passivated Single-Phase Bridge Rectifier Reverse Voltage - 600V to 1000V Forward Current - 8.0 Amperes

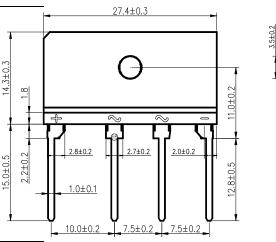
Features

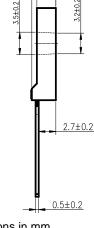
- ◆ Thin Single In-Line package;
- ◆ Ideal for printed circuit boards;
- ◆ Glass Passivated chip junction;
- Low profile package;
- ♦ High Surge current capability;
- ◆ High case dielectric strength of 2500 V_{RMS};
- Plastic package has Underwrites Laboratory Flammability Classification 94V-0;
- Same footprint V.S GBJ package;



Mechanical Data

- ◆ Case: GBJL;
 - Epoxy meets UL-94V-0 Flammability rating;
- ◆ Terminals:Matte tin plated leads, solderable per J-STD-002 and JESD22-B102; E3 suffix for customer grade, meet JESD 201;
- ♦ High temperature soldering guaranteed: Solder Dip 270°C,10seconds;
- Polarity: As marked on body;
- ◆ Mounting Torgue: 10cm-kg (8.8inches-lbs) max;
- Recommend Torgue: Mounting Torgue:
 5.7cm-kg (5inches-lbs);





3.8±0.2

 3.0 ± 0.2

Typical Applications

General purpose use in AC-to-DC bridge full wave rectification for Switching Power Supply, Home Appliances, Office Equipment, Industrial Automation applications.

Package Dimensions in mm

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	GBJL8J	GBJL8K	GBJL8M	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	600	800	1000	V
Maximum RMS voltage	V _{RMS}	420	560	700	٧
Maximum DC blocking voltage	V _{DC}	600	800	1000	٧
Maximum average forward T_c =110 $^{\circ}$ Crectified output current at T_A =25 $^{\circ}$ C	I _{F(AV)}	8 ⁽¹⁾ 2.8 ⁽²⁾			Amps
Peak forward surge current 8.3 ms single sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150			Amps
Rating for fusing (t<8.3ms)	l ² t	93			A ² sec
Maximum Instantaneous forward voltage drop per leg at 4.0A	V _F	0.98			Volt
Maximum DC Reverse Current at Rated T _A =25℃ DC Blocking Voltage per leg T _A =125℃	I _R	5 150			μΑ
Typical thermal resistance per leg	R _{eJA} R _{eJC}	22 ⁽²⁾ 2.0 ⁽¹⁾			°C/W
Operating junction and Storage Temperature Range	T _J ,T _{STG}		-55 to +150		Ç

Notes:

- 1). Unit case mounted on Al plate heatsink;
- 2). Units mounted on PCB without heatsink;
- 3). Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw.



GBJL8J THRU GBJL8M

Glass Passivated Single-Phase Bridge Rectifier
Reverse Voltage - 600V to 1000V
Forward Current - 8.0 Amperes

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

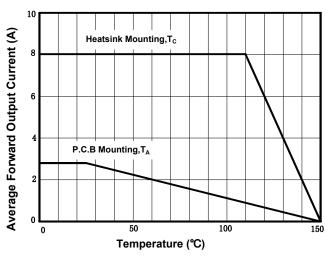


Figure 1. Derating Curve Output Rectified Current

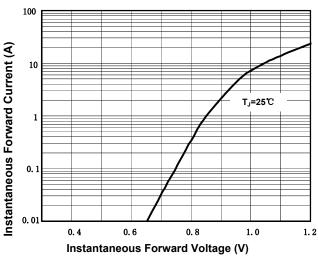


Figure 3. Typical Forward Characteristics Per Diode

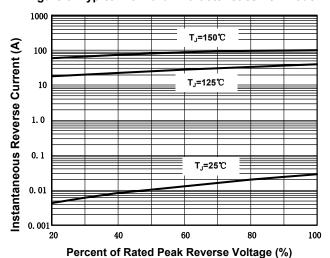


Figure 5 Trusted Borrers Characteristics Bor Bio

Figure 5. Typical Reverse Characteristics Per Diode

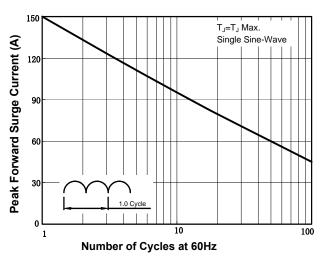


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current per Diode

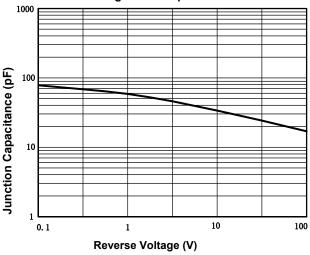


Figure 4. Typical Junction Capacitance Per Diode