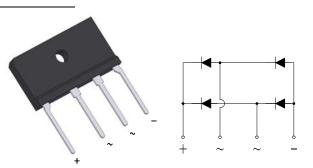


GBJL10JA THRU GBJL10MA

Glass Passivated Single-Phase Bridge Rectifier Reverse Voltage - 600V to 1000V Forward Current - 10.0 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;



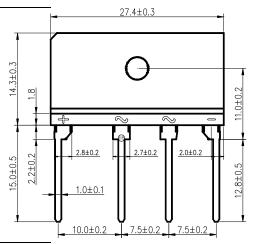


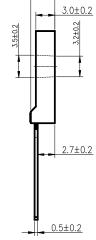
ROHS

3.8±0.2

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);





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	GBJL10JA	GBJL10KA	GBJL10MA	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	V
Maximum average forward T_c =110 $^{\circ}$ Crectified output current at T_A =25 $^{\circ}$ C	I _{F(AV)}	10 ⁽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 5.0A	V _F	1.0			Volt
Maximum DC Reverse Current at Rated T _A =25℃ DC Blocking Voltage per leg T _A =125℃	I _R		5 150		
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		°C

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.



GBJL10JA THRU GBJL10MA

Glass Passivated Single-Phase Bridge Rectifier Reverse Voltage - 600V to 1000V Forward Current - 10.0 Amperes

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

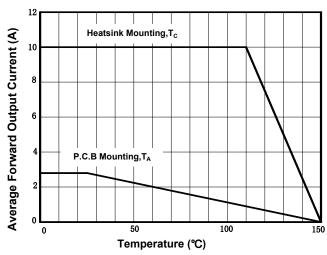


Figure 1. Derating Curve Output Rectified Current

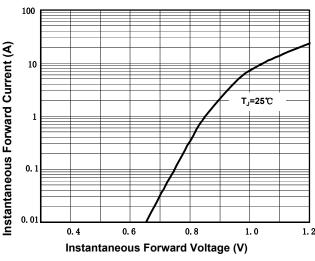
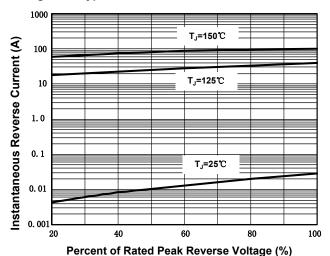


Figure 3. Typical Forward Characteristics Per Diode



reicent of Rateu Feak Reverse Voltage (10)

Figure 5. Typical Reverse Characteristics Per Diode

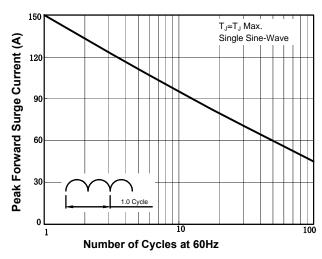


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current per Diode

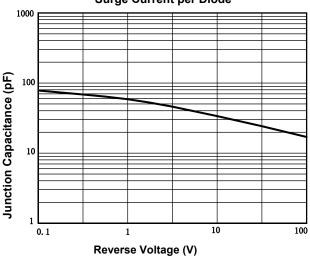


Figure 4. Typical Junction Capacitance Per Diode