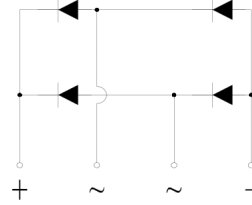
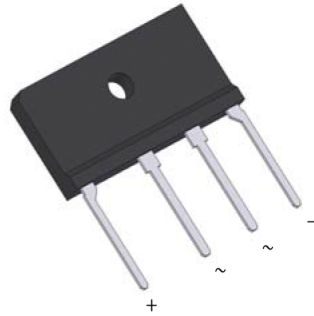
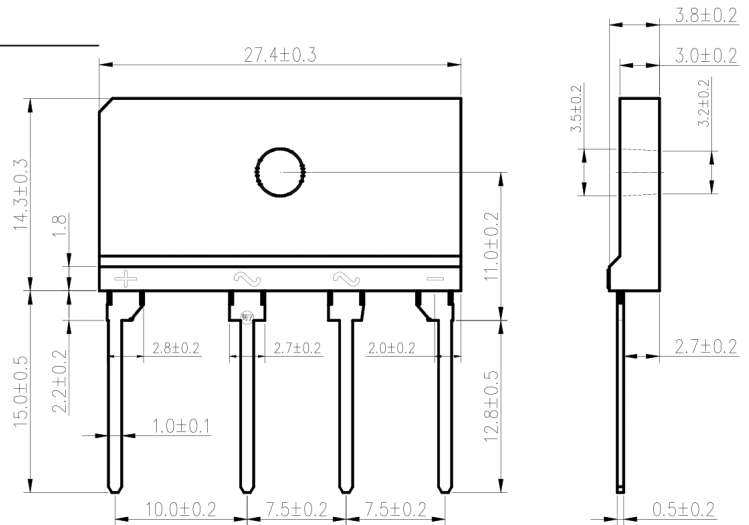


Features

- ◆ 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
COMPLIANT**
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 Torque: 10cm-kg (8.8inches-lbs) max;
- ◆ Recommend Torque: Mounting Torque:
5.7cm-kg (5inches-lbs);



Package Dimensions in mm

Typical Applications

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

Maximum Ratings and Electrical Characteristics

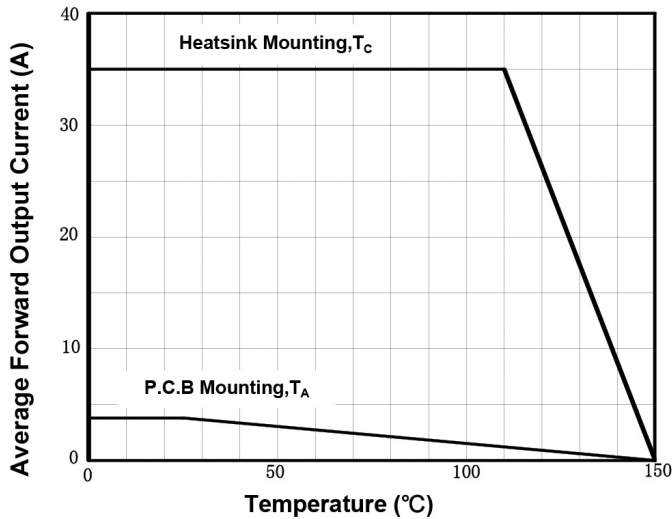
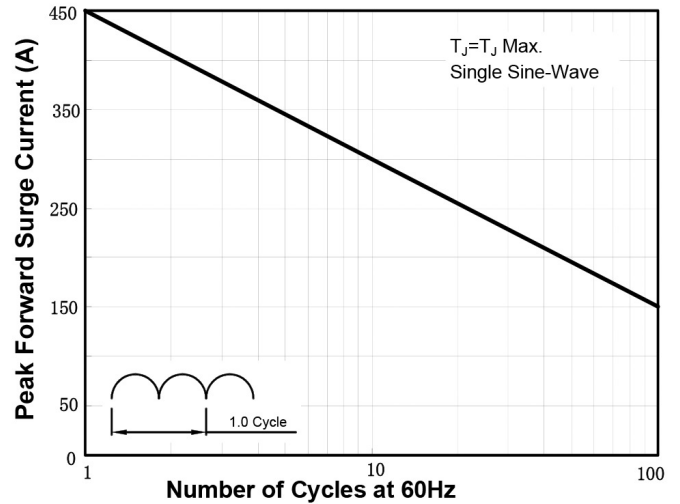
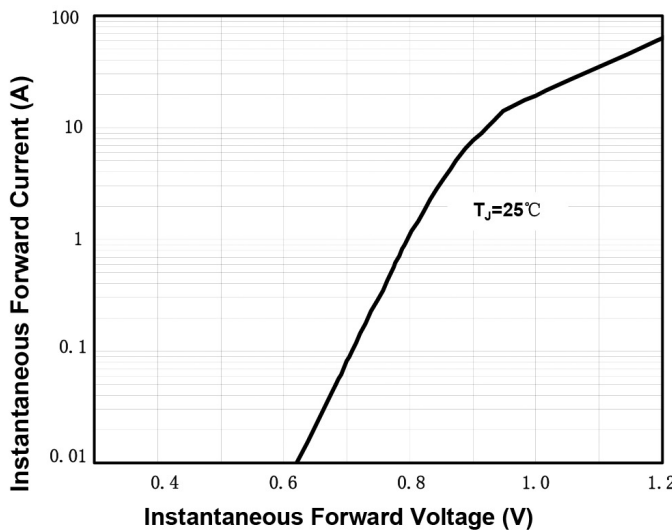
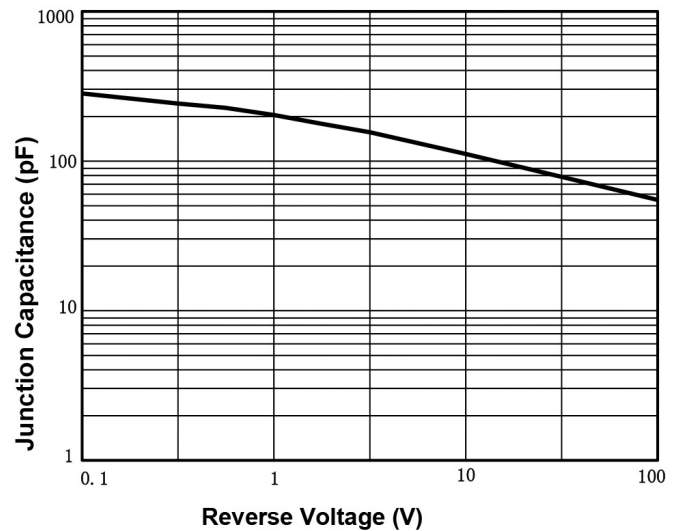
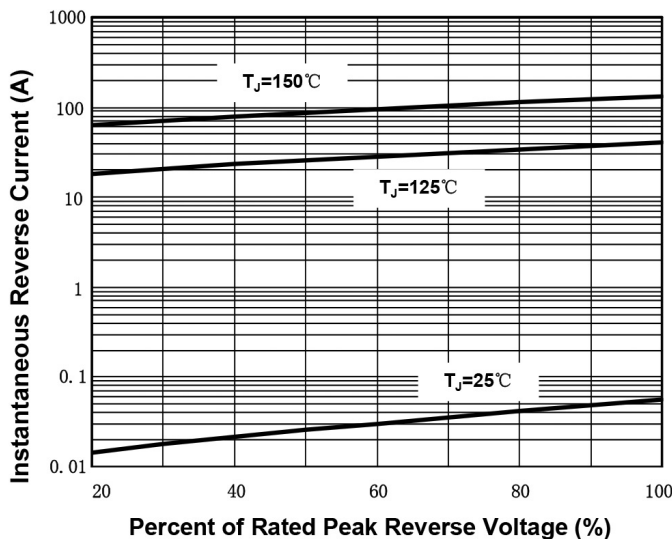
Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	GBJL35J	GBJL35K	GBJL35M	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	600	800	1000	V
Maximum RMS voltage	V _{RMS}	420	560	700	V
Maximum DC blocking voltage	V _{DC}	600	800	1000	V
Maximum average forward rectified output current at T _C =110°C T _A =25°C	I _{F(AV)}	35 ⁽¹⁾ 3.8 ⁽²⁾			Amps
Peak forward surge current 8.3 ms single sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	450			Amps
Rating for fusing (t<8.3ms)	I ² t	840			A ² sec
Maximum Instantaneous forward voltage drop per leg at 17.5A	V _F	1.05			Volt
Maximum DC Reverse Current at Rated DC Blocking Voltage per leg T _A =25°C T _A =125°C	I _R	5 150			µA
Typical thermal resistance per leg	R _{θJA} R _{θJC}	22 ⁽²⁾ 1.5 ⁽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.

RATINGS AND CHARACTERISTICS CURVES

 ($T_A=25^\circ\text{C}$ unless otherwise noted)

Figure 1. Derating Curve Output Rectified Current

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

Figure 3. Typical Forward Characteristics Per Diode

Figure 4. Typical Junction Capacitance Per Diode

Figure 5. Typical Reverse Characteristics Per Diode