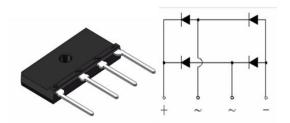


GOOD-ARK Electronics

Reverse Voltage 600~1000V Output Current 25.0A

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 VRMS;
- Plastic package has Underwrites Laboratory
 Flammability Classification 94V-0;
- Same footprint V.S GBJ package;



GBJL

Typical Applications

• General purpose use in ac-to-dc bridge full wave rectification for TV, Monitor, SMPS, Adapter, Printer, Audio equipment, and Home Applications application

Mechanical Data

- Case: GBJL; Epoxy meets UL-94V-0 Flammability rating; Base P/N with suffix"E" on packing code-halogen free;
- Terminals:Matte tin plated leads, solderable per J-STD-002 and JESD22-B102; E3 suffix for customer grade, meet JESD 201;

Maximum Ratings (TA = 25 °C unless otherwise noted)								
Parameter		Symbol	GBJL25J	GBJL25K	GBJL25M	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	I _{F(AV)}	25 ⁽¹⁾ 3.6 ⁽²⁾			А		
	T _A =25°C							
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	350			Α		
Rating for fusing (t≤8.3ms)		l ² t	511		A ² s			
Operating junction and storage temperature range		T _J , T _{STG}	-55 to 150			°C		



GBJL25J thru GBJL25M

GOOD-ARK Electronics

Electrical Characteristics (TA = 25 °C unless otherwise noted)								
Parameter	Test Conditions	Symbol	GBJL25J	GBJL25K	GBJL25M	Unit		
Maximum instantaneous forward voltage	I _F =12.5A	V _F	0.98		Volts			
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C		5.0					
	T _A =125°C	I _R	150			μΑ		
Typical thermal resistance per leg		$R_{\theta JA}$	22(2)					
		$R_{\theta JL}$	2.5(1)		°C/W			

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 M3 screw.

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Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

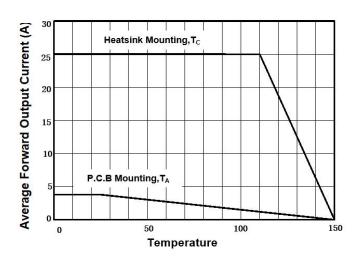


FIG.2-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT

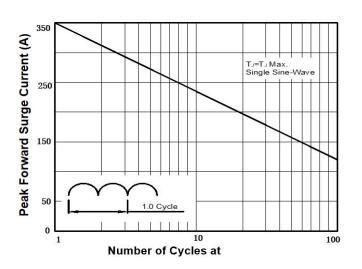


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

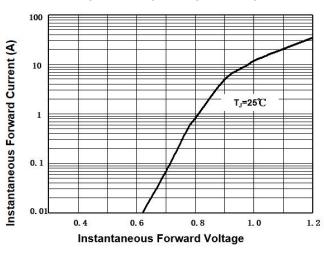
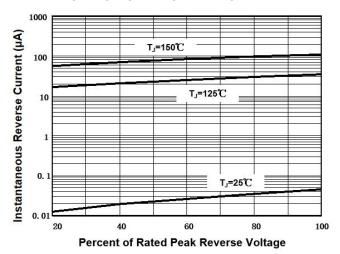


FIG.4-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS

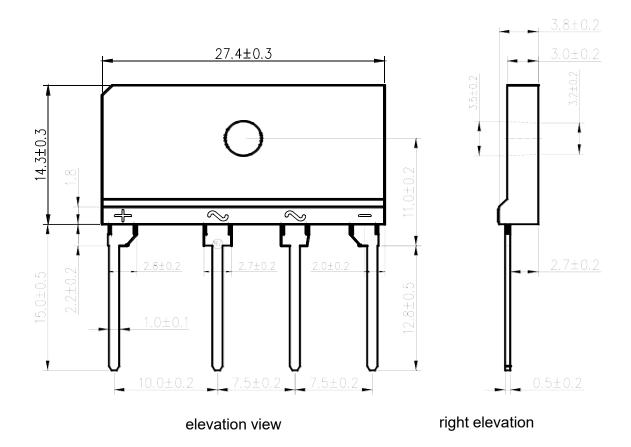




Package Outline Dimensions

Unit:mm

First angle projection



Revision History

Document Version	Date of release	Discription of changes
Rev.A	2021/3/1	Released Datasheet
Rev.B	2023/12/17	Modify document format

GBJL25J thru GBJL25M

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