

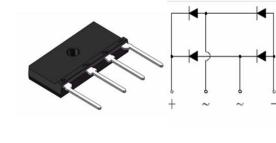
GOOD-ARK Electronics

Reverse Voltage 600~1000V Ountput Current 15.0A

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;

Typical Applications



GBJL

•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	GBJL15J	GBJL15K	GBJL15M	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		15 ⁽¹⁾ 3.2 ⁽²⁾					
	T _A =25°C	I _{F(AV)}				A		
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	240		А			
Rating for fusing (t≪8.3ms)		l ² t	240		A ² s			
Operating junction and storage temperature range		T _J , T _{STG}	-55 to 150			°C		



Electrical Characteristics (TA = 25 °C unless otherwise noted)									
Parameter	Test Conditions	Symbol	GBJL15J	GBJL15K	GBJL15M	Unit			
Maximum instantaneous forward voltage	I _F =7.5A	V _F	0.98		Volts				
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C		5.0						
	T _A =125℃	I _R	150		μA				
Typical thermal resistance per leg		Reja ⁽²⁾	22						
		Rejc ^(1,3)	2.5		°C/W				

Notes:

1). Unit case mounted on AI plate heatsink;

2). Units mounted on PCB without heatsink;

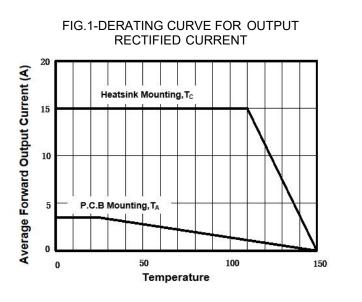
3). Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw.

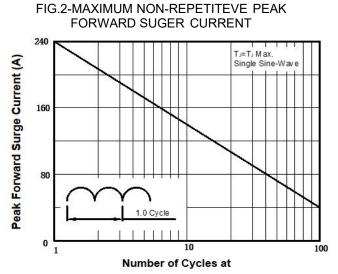


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Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)





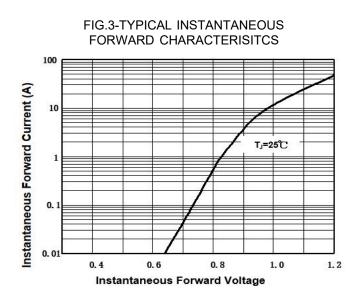
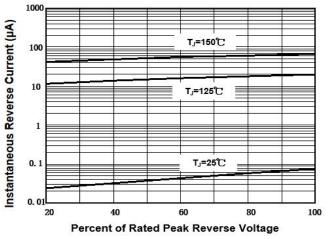


FIG.4-TYPICAL REAK REVERSE **VOLTAGE CHARACTERISTICS**

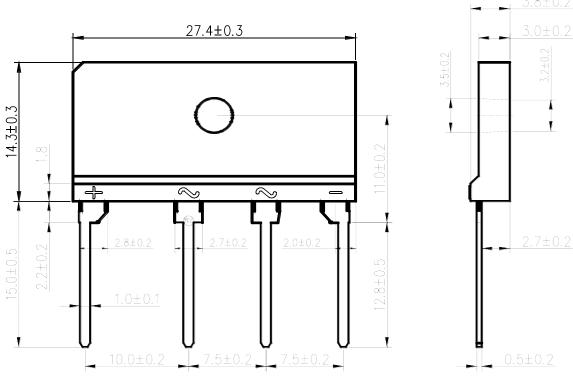




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Package Outline Dimensions

Unit:mm



First angle projection

elevation view

right elevation

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	



GBJL15J thru GBJL15M

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