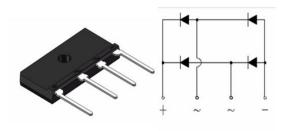


GOOD-ARK Electronics

Reverse Voltage 600~1000V Output Current 8.0A

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	GBJL8J	GBJL8K	GBJL8M	Unit		
Maximum repetitive peak reverse voltage		V _{RRM}	600	800	1000	٧		
Maximum RMS voltage		V _{RMS}	420	560	700	٧		
Maximum DC blocking voltage		V _{DC}	600	800	1000	V		
Maximum average forward rectified output current at	T _C =110°C		8 ⁽¹⁾		А			
	T _A =25°C	I _{F(AV)}	2.8 (2)					
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	150		А			
Rating for fusing (t≤8.3ms)		l ² t	94		A ² s			
Operating junction and storage temperature range		T _J , T _{STG}	-55 to 150		°C			



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Electrical Characteristics (TA = 25 °C unless otherwise noted)								
Parameter	Test Conditions	Symbol	GBJL8J	GBJL8K	GBJL8M	Unit		
Maximum instantaneous forward voltage	I _F =4.0A	V _F	0.98			Volts		
Maximum DC reverse current at rated DC blocking voltage	T _A =25℃		5.0					
	T _A =125℃	I _R	150			μΑ		
Typical thermal resistance per leg		R өJA ⁽²⁾	22					
		R өJC (1,3)	2.0			°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.

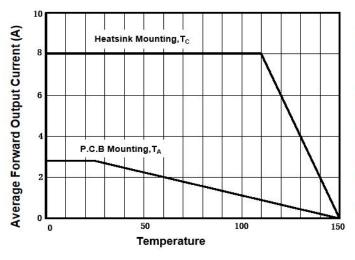
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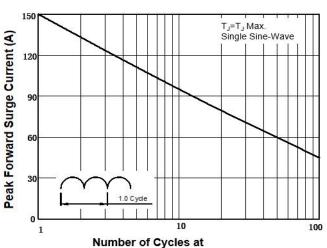
Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT FIG RECTIFIED CURRENT

.2-MAXIMUM NON-REPETITEVE PEAKFORWARD SUGER CURRENT





FORWARD CHARACTERISITCS

FIG.3-TYPICAL INSTANTANEOUS

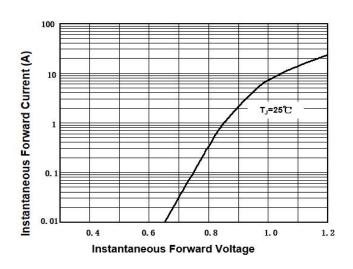
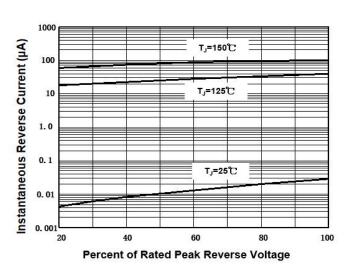


FIG.4-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS

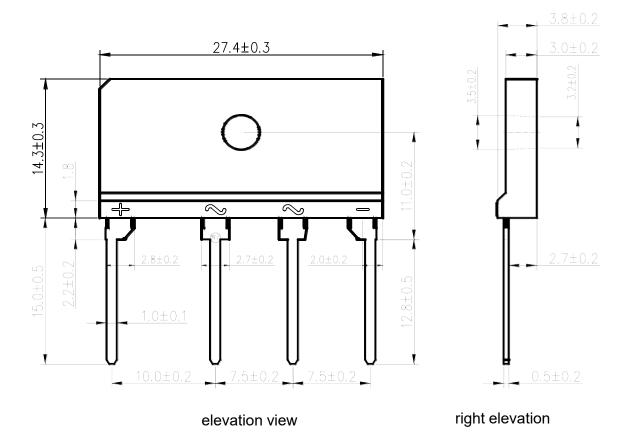


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Package Outline Dimensions

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	



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