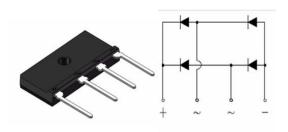
GOOD-ARK Electronics

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;



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	GBJL15JA	GBJL15KA	GBJL15MA	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⁾ 3.0 ⁽²⁾			A		
	T _A =25°C	I _{F(AV)}						
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	180			A		
Rating for fusing (t≤8.3ms)		l ² t	135			A ² s		
Operating junction and storage temperature range		T _J , T _{STG}	-55 to 150			°C		



GBJL15JA thru GBJL15MA

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Electrical Characteristics (TA = 25 °C unless otherwise noted)								
Parameter	Test Conditions	Symbol	GBJL15JA	GBJL15KA	GBJL15MA	Unit		
Maximum instantaneous forward voltage	I _F =7.5A	V _F	1.05		Volts			
Maximum DC reverse current at rated DC blocking voltage	TA=25℃		5.0					
	TA=125℃	I _R	150			μA		
Typical thermal resistance per leg		R өJA ⁽²⁾	22					
		R өJC (1,3)	2.5		°C/W			

Notes:

heatsink

^{1).} Unit case mounted on Al plate heatsink;

^{2).} Units mounted on PCB without

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

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

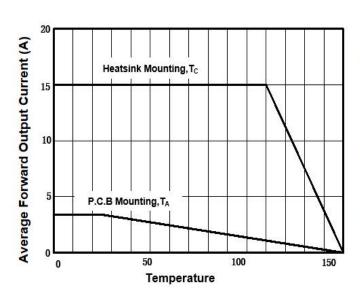


FIG.2-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT

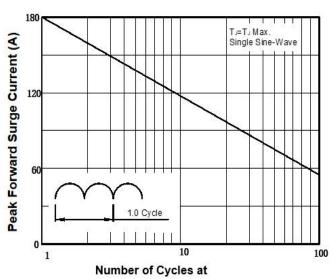


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

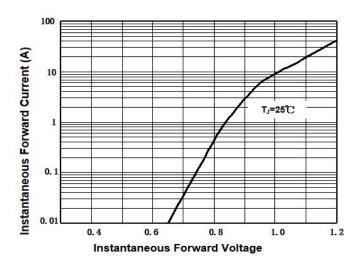
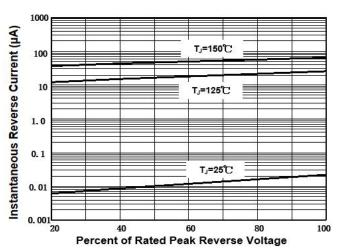


FIG.4-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS



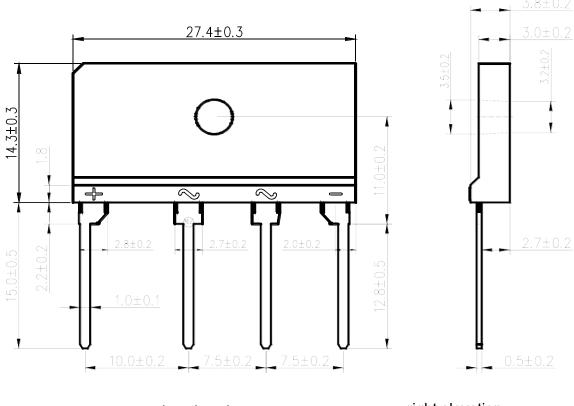
GBJL15JA thru GBJL15MA

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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



GBJL15JA thru GBJL15MA

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