

GOOD-ARK Flectronics

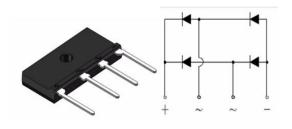
Reverse Voltage 600~1000V Ountput Current 20.0A

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	GBJL20JA	GBJL20KA	GBJL20MA	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	I _{F(AV)}	20 ⁽¹⁾ 3.2 ⁽²⁾			А		
	T _A =25°C							
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	240		Α			
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		



GBJL20JA thru GBJL20MA GOOD-ARK Electronics

Electrical Characteristics (TA = 25 °C unless otherwise noted)								
Parameter	Test Conditions	Symbol	GBJL20JA	GBJL20KA	GBJL20MA	Unit		
Maximum instantaneous forward voltage	I _F =10.0A	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 _{θJA} ⁽²⁾	22					
		R _θ Jс ^(1,3)	2.5		°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



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Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

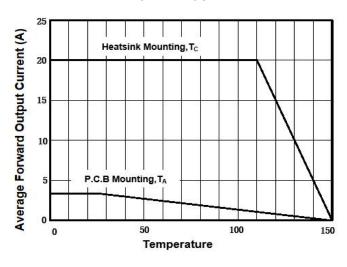


FIG.2-MAXIMUM NON-REPETITEVE PEAK FORWARD SUGER CURRENT

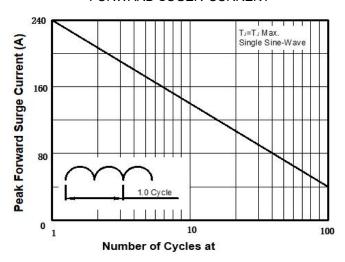


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

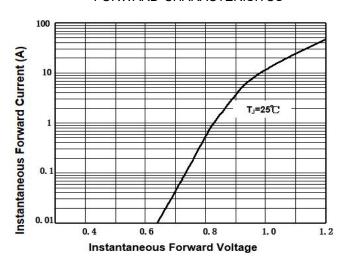
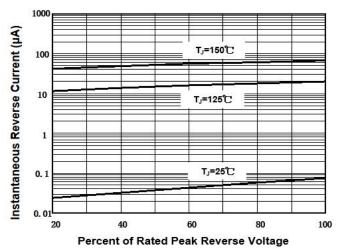


FIG.4-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS

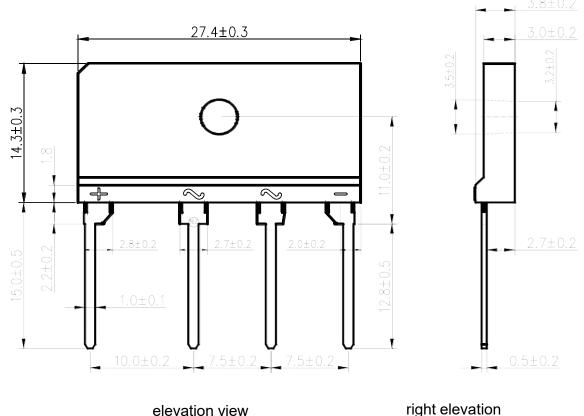


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Package Outline Dimensions

Unit:mm

First angle projection



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	



GBJL20JA thru GBJL20MA

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