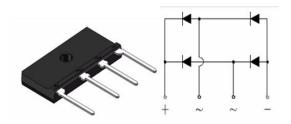
GOOD-ARK Electronics

Reverse Voltage 600~1000V Ountput Current 6.0A

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	GBJL6JU	GBJL6KU	GBJL6MU	Unit
Maximum repetitive peak reverse voltage		V _{RRM}	600	800	1000	V
Maximum RMS voltage		V _{RMS}	420	560	700	>
Maximum DC blocking voltage		V _{DC}	600	800	1000	>
Maximum average forward rectified output current at	T _C =110°C		6 ⁽¹⁾ 3 ⁽²⁾		А	
	T _A =25°C	I _{F(AV)}				
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	180		Α	
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



GBJL6JU thru GBJL6MU

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Electrical Characteristics (TA = 25 °C unless otherwise noted)						
Parameter	Test Conditions	Symbol	GBJL6JU	GBJL6KU	GBJL6MU	Unit
Maximum instantaneous forward voltage	I _F =3.0A	V _F	0.95		Volts	
Maximum DC reverse current at rated DC blocking voltage	TA=25℃		5.0			
		I _R	150			μΑ

Thermal Characteristics						
Parameter	Symbol	GBJL6JU	GBJL6KU	GBJL6MU	Unit	
	R _θ JA ⁽²⁾	22			°C/W	
Typical thermal resistance per leg	ReJC (1,3)	2.5				

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

Heatsink Mounting, T_c

P.C.B Mounting, T_A

P.C.B Mounting, T_A

Temperature

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

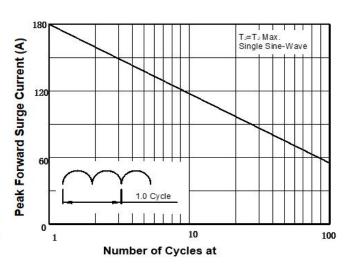


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISITCS

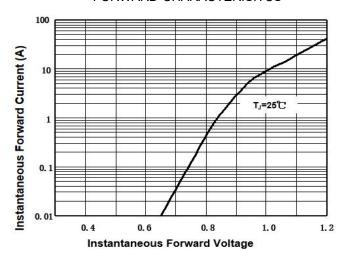
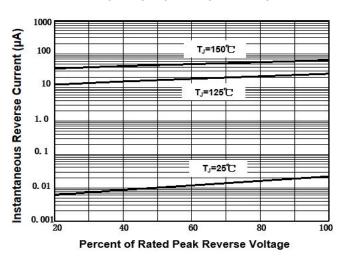


FIG.4-TYPICAL REAK REVERSE VOLTAGE CHARACTERISTICS



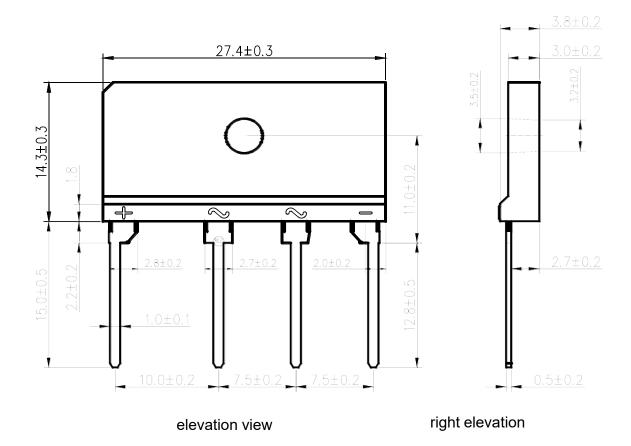
GBJL6JU thru GBJL6MU

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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	2023/12/22	Modify document format	



GBJL6JU thru GBJL6MU

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