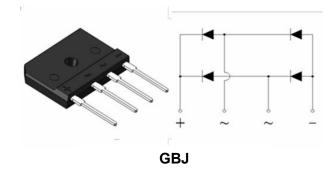


GOOD-ARK Electronics

Reverse Voltage50V~1000V Output Current 25A

Features

- •Thin Single In-Line package;
- Ideal for printed circuit boards;
- •Glass Passivated chip junction;
- •High Surge current capability;
- •High case dielectric strength of 2500 VRMS;
- •Plastic package has Underwrites Laboratory
- Flammability Classification 94V-0;



Typical Applications

•Appliances, Office Equipment, Industrial Automation applications.

Mechanical Data

- •Case: GBJ(5S)Molded plastic body;Base P/N with suffix"E" on packing code-halogen free
- •Terminals:Plated leads solderable per MIL-STD-750, Method 2026;
- •High temperature soldering guaranteed: Solder Dip 260°C, 10seconds;
- •Polarity: As marked on body;
- •Mounting Torgue: 10cm-kg (8.8 inches-lbs) max;
- •Recommend Torgue:Mounting Torgue: 5.7cm-kg (5inches-lbs);

Maximum Ratings (TA = 25 °C unless otherwise noted)										
Parameter		Symbol	GBJ25A	GBJ25B	GBJ25D	GBJ25G	GBJ25J	GBJ25K	GBJ25M	Unit
Maximum repetitive peak reverse voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS_voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage		V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at	TA=98°C		25.0 ⁽¹⁾							А
	TA=25°C	I _{F(AV)}	3.5(2)							
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load		I _{FSM}	350							A
Rating for fusing(t<8.3ms)		l ² t	511							A ² sec
Operating junction and storage temperature range		T _J , T _{STG}	- 55 to + 150							°C



Electrical Characteristics (TA = 25 °C unless otherwise noted)										
Parameter		Symbol	GBJ25A	GBJ25B	GBJ25D	GBJ25G	GBJ25J	GBJ25K	GBJ25M	Unit
Maximum instantaneous forward per leg at 12.5A	V _F	1.00							Volts	
Maximum DC reverse at rated DC blocking voltage per leg	TA=25°C		5.00							μA
	TA=125°C	I _R	250.00							
Typical thermal resistance per leg		Reja ⁽²⁾	22 ⁽²⁾						°C/W	
		Rejc (3)	1.0 ⁽¹⁾							

1) . Unit case mounted on AI plate heatsink;

2). Units mounted on PCB without heatsink;

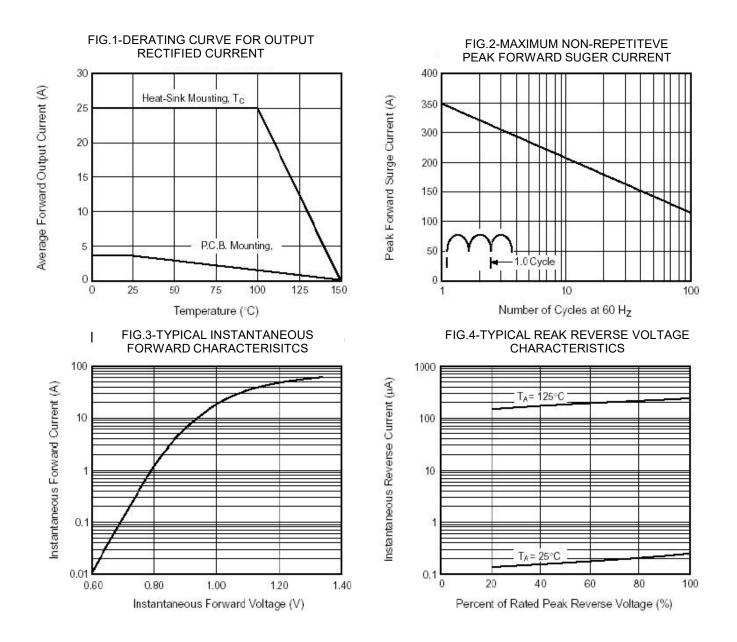
3). Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw.



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Ratings and Characteristics Curves

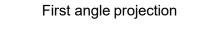
(TA = 25° C unless otherwise noted)

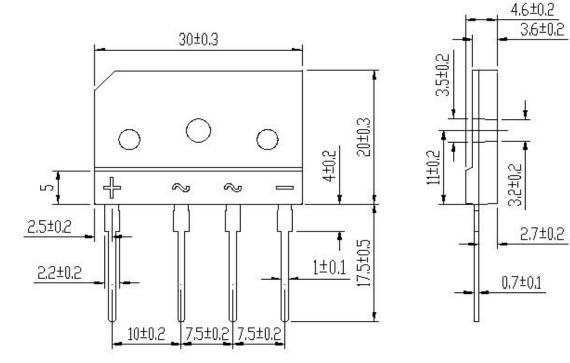




Package Outline Dimensions

in millimeters





elevation view

right elevation

Revision History

Document Version	Date of release	Discroption of changes
Rev.A	2021/3/1	Released Datasheet
Rev.B	2023/12/17	Modify document format



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