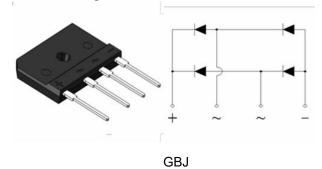


Reverse Voltage50V~1000V Output Current 25A

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

 General purpose use in AC-to-DC bridge full wave rectification for Switching Power Supply, Home 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	٧
Maximum RMS voltage		V _{RMS}	35	70	140	280	420	560	700	>
Maximum DC blocking voltage		V _{DC}	50	100	200	400	600	800	1000	>
Maximum average forward rectified output current at	TA=98°C		25.0 ⁽¹⁾							
	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							Α
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	



GOOD-ARK Electronics

Electrical Characteristics (TA = 25 °C unless otherwise noted)										
Parameter		Symbol	GBJ25A	GBJ25B	GBJ25D	GBJ25G	GBJ25J	GBJ25K	GBJ25M	Unit
Maximum instantaneous forward voltage drop 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							- μΑ
	TA=125°C	I _R	250.00							
Typical thermal resistance per leg		R өJA ⁽²⁾	22 ⁽²⁾						° C /W	
		RøJL ⁽³)	4.0 ⁽¹⁾							
		Rејс ⁽³⁾	1.0 ⁽¹⁾							

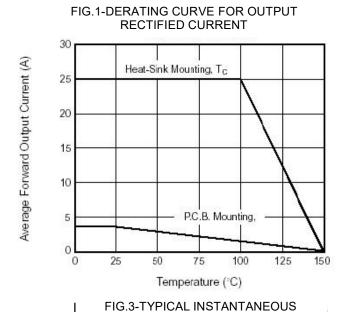
- 1). Unit case mounted on Al plate heatsink;
- 2). Units mounted on PCB without heatsink;

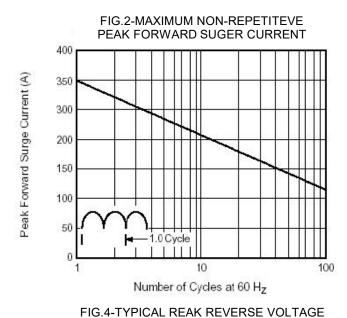
3). Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw.

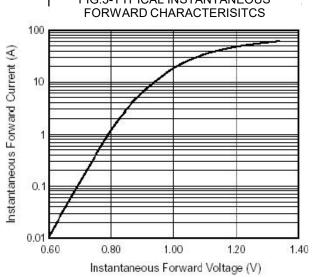


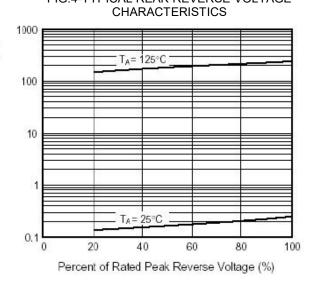
Ratings and Characteristics Curves

(TA = 25° C unless otherwise noted)







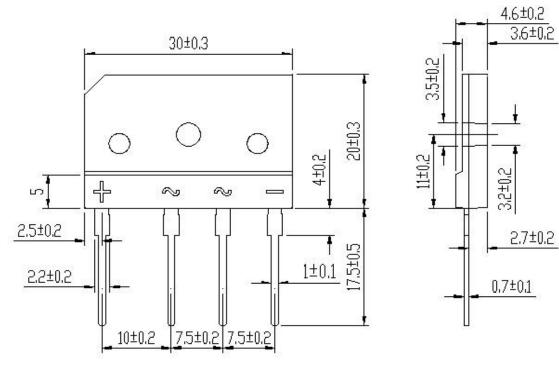


Instantaneous Reverse Current (µA)

Package Outline Dimensions

in millimeters

First angle projection



elevation view

right elevation

Revision History

Document Version	Date of release	Discroption of changes
Rev.A	2021/3/1	Released Datasheet
Rev.B	2023/12/22	Modify document format



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