

Reverse Voltage50V~1000V Output Current 15A

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;

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GBJ

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 ℃,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	GBJ15AU	GBJ15BU	GBJ15DU	GBJ15GU	GBJ15JU	GBJ15KU	GBJ15MU	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	V
Maximum DC blocking voltage		V _{DC}	50	100	200	400	600	800	1000	٧
Maximum average forward	TA=107°C		15 ⁽¹⁾							A
rectified output current at	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}	240							Α
Rating for fusing(t<8.3ms)		l ² t	240						A ² sec	
Operating junction and storage temperature range		T _J , T _{STG}	- 55 to + 150							°C

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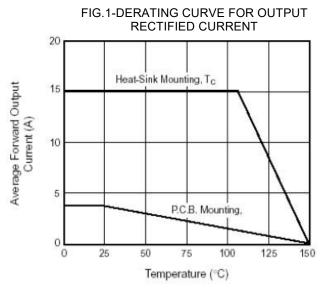
Electrical Characteristics (TA = 25 °C unless otherwise noted)										
Parameter		Symbol	GBJ15AU	GBJ15BU	GBJ15DU	GBJ15GU	GBJ15JU	GBJ15KU	GBJ15MU	Unit
Maximum instantaneous forward voltage drop per leg at 7.5A		V _F	1.00							Volts
Maximum DC reverse at rated DC blocking voltage per leg	TA=25°C		5.00							
	TA=125°C	I _R	250.00							μΑ

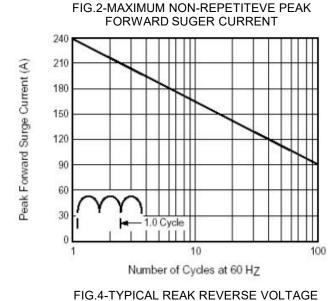
Thermal Characteristics									
Parameter	Symbol	GBJ15AU	GBJ15BU	GBJ15DU	GBJ15GU	GBJ15JU	GBJ15KU	GBJ15MU	Unit
Typical thermal resistance per leg	R өJA ⁽²⁾	22 ⁽²⁾						° C /W	
	R өJC ⁽³⁾	1.5 ⁽¹⁾							

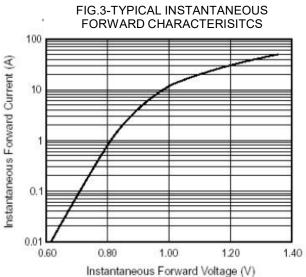
- 1). Unit case mounted on Al plate heatsink;
- 2). Units mounted on PCB without heatsink;
- 3). Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw.

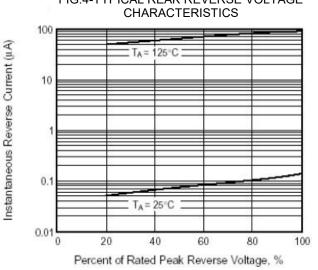
Ratings and Characteristics Curves

(TA = 25° C unless otherwise noted)





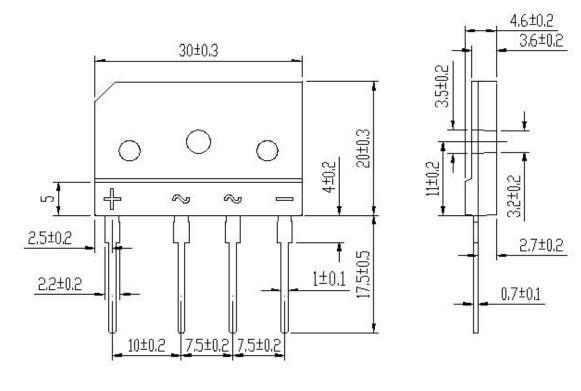




Package Outline Dimensions

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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