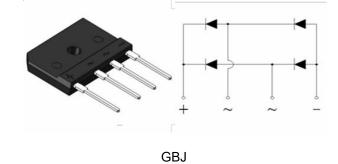


Reverse Voltage1200V Output Current 20A

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;



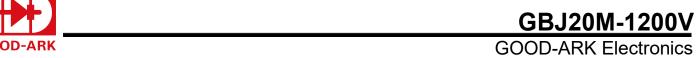
Typical Applications

• 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	GBJ20M-1200V	Unit	
Maximum repetitive peak reverse voltage		V _{RRM}	1200	V	
Maximum RMS voltage		V _{RMS}	840	V	
Maximum DC blocking voltage		V _{DC}	1200	V	
Maximum average forward rectified output current at	TA=87 °C	I _{F(AV)}	20.0 ⁽¹⁾	А	
	TA=25 °C		3.5(2)		
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load		I _{FSM}	240	А	
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	



Electrical Characteristics (TA = 25 °C unless otherwise noted)						
Parameter		Symbol	GBJ20M-1200V	Unit		
Maximum instantaneous forward voltage drop per leg at 10A		V _F	1.00	Volts		
Maximum DC reverse at rated DC blocking voltage per leg	TA=25°C	I _R	5.00	μA		
	TA=125°C		250.00			

Thermal Characteristics					
Parameter	Symbol	GBJ20M-1200V	Unit		
Typical thermal resistance per leg	R өJA ⁽²⁾	22 ⁽²⁾	° C /W		
	Rejc ⁽³⁾	1.5 ⁽¹⁾			

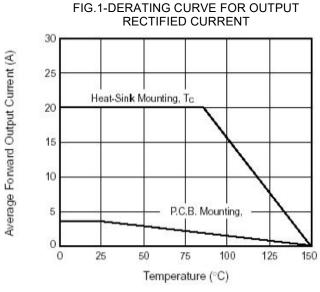
^{1).} Unit case mounted on Al plate heatsink;

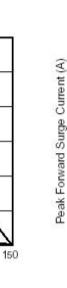
- 2). Units mounted on PCB without heatsink;
- 3). Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw.

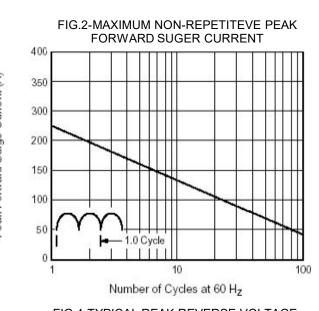


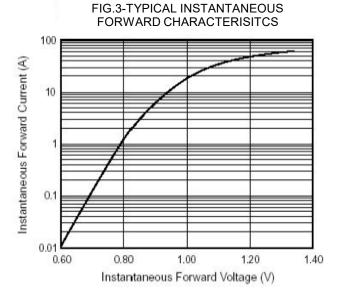
Ratings and Characteristics Curves

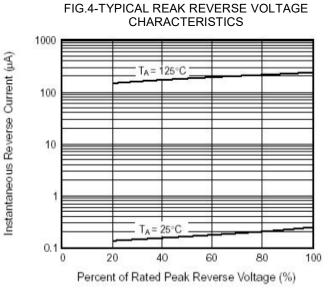
(TA = 25° C unless otherwise noted)









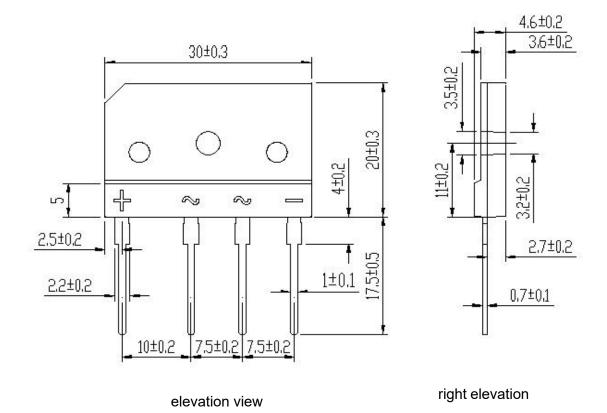




Package Outline Dimensions

in millimeters

First angle projection



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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