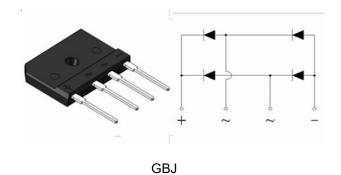


Reverse Voltage50V~1000V Output Current 20A

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	GBJ20A	GBJ20B	GBJ20D	GBJ20G	GBJ20J	GBJ20K	GBJ20M	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	TA=87 °C		20.0 ⁽¹⁾							
rectified output current at	TA=25 °C		3.5(2)							A
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	GBJ20A	GBJ20B	GBJ20D	GBJ20G	GBJ20J	GBJ20K	GBJ20M	Unit
Maximum instantaneous forward voltage drop per leg at 10A		V _F	1.00							
Maximum DC reverse at rated	TA=25°C					5.00				
DC blocking voltage per leg	TA=125°C	I _R	250.00							μΑ

Thermal Characteristics									
Parameter	Symbol	GBJ20A	GBJ20B	GBJ20D	GBJ20G	GBJ20J	GBJ20K	GBJ20M	Unit
	Reja ⁽²⁾	22 ⁽²⁾							° C /W
Typical thermal resistance per leg	Rejc ⁽³⁾	1.5 ⁽¹⁾							

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

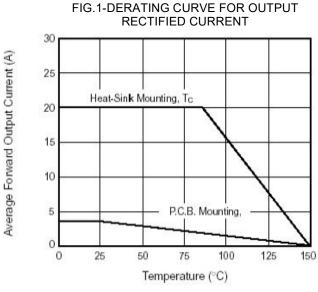
^{2).} Units mounted on PCB without heatsink;

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

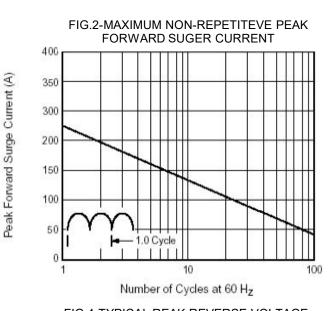


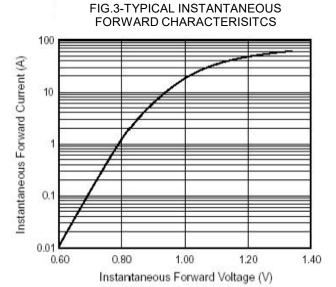
Ratings and Characteristics Curves

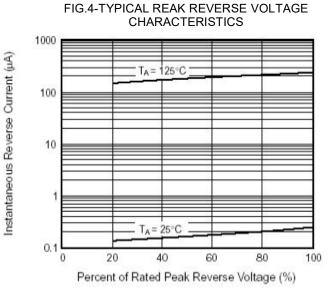
(TA = 25° C unless otherwise noted)











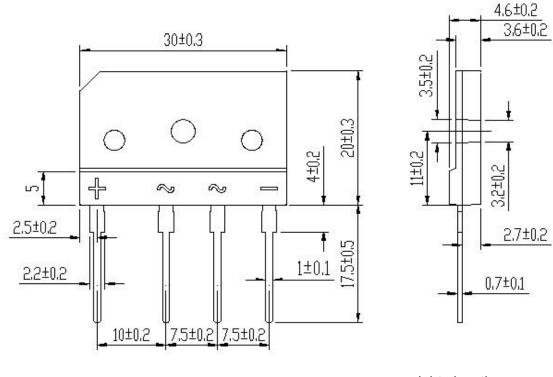
3 Version: Rev.B www.goodark.com



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	2023/12/17	Modify document format				



GBJ20A thru GBJ20M

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