

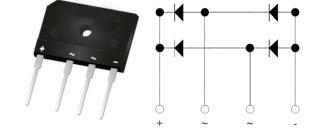
20A Glass Passivated Single-Phase Bridge Rectifier

Features

- ◆ Glass Passivated Chip
- ◆ High Surge Current Capability
- ◆ Low Reverse Leakage Current
- ◆ Case to Terminal Isolation Voltage 2500V

Application

- ◆ Induction Cooker
- ◆ Electric Welding Machine
- General Purpose Single-Phase Bridge Rectifier



Machanical Data

◆ Case: Plastic Package

◆ Marking / Polarity: Marked on Body

◆ Weight: About 6.9 Grams

Maximum Ratings and Thermal Characteristics $T_A = 25$ °C unless otherwise noted

Symbol	Parameter		Rating	Unit
V _{RRM}	Recurrent Peak Reverse Voltage		1000	V
I _{F(AV)}	Average Forward Output Rectified Current, T _A = 120°C		20	А
V _F	Maximum Forward Voltage Per Leg, I _{FM} = 20A		1.1	V
I _{FSM}	Peak Forward Surge Current Single Half Sine-wave Superimposed on Rated Load		300	А
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A = 25°C	5.0	μΑ
		T _A = 125°C	500	
i ² t	Rating for Fusing (t < 8.3ms)		373	A ² S
V _{isol}	Rms Isolation Voltage from Case to Leads		2500	V
CJ	Typical Junction Capacitance		100	pF
$R_{\theta}J_{C}$	Maximum Thermal Resistance Per Leg		1.0	°C/W
T _J , T _{STG}	Operating Junction and Storage Temperature Range		-55 to 150	°C

Notes:

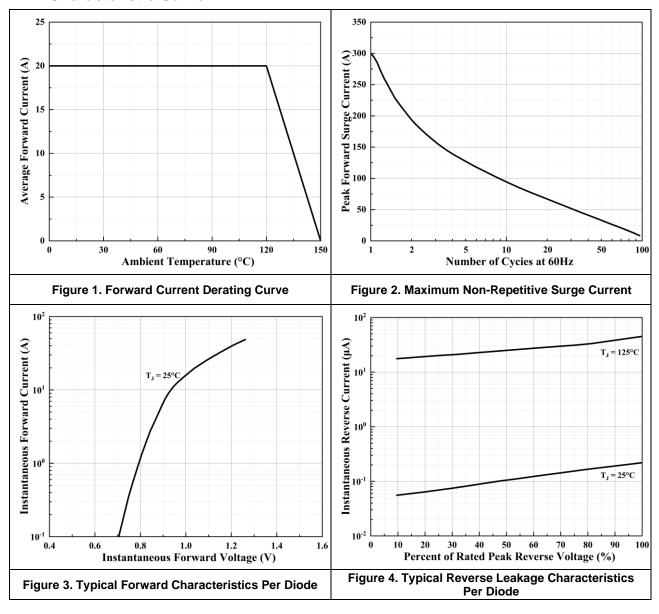
a. Junction to case with heatsink.

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



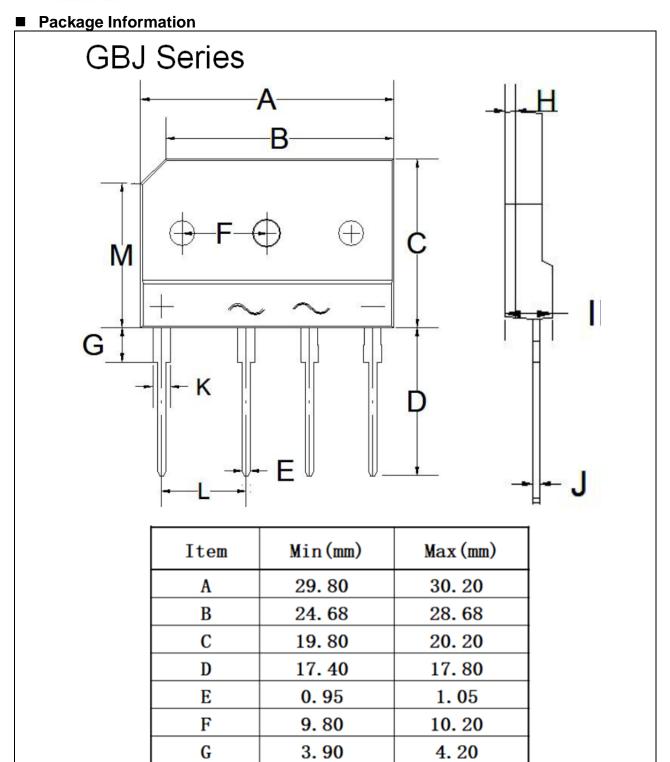
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■ Characteristic Curve





20A Glass Passivated Single-Phase Bridge Rectifier



H

Ι

J

K

L

M

0.85

4. 40

0.50

1.80

9.80

16.40

1.30

4.80

0.80

2.40

10.20

17.00