

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

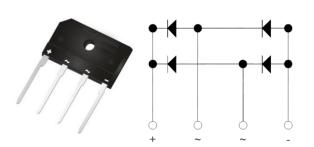
- ◆ Induction Cooker
- ◆ Ceramic Cooktop
- ◆ Switching Mode Power Supply
- ◆ General Purpose Single-Phase Bridge Rectifier



◆ Case: Plastic Package

◆ Marking / Polarity: Marked on Body

♦ Weight: About 3.7 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	μА
		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		95	pF
R _θ J _C	Maximum Thermal Resistance Per Leg		0.8	°C/W
T _J , T _{STG}	Operating Junction and Storage Temperature Range		-55 to 150	°C

Notes:

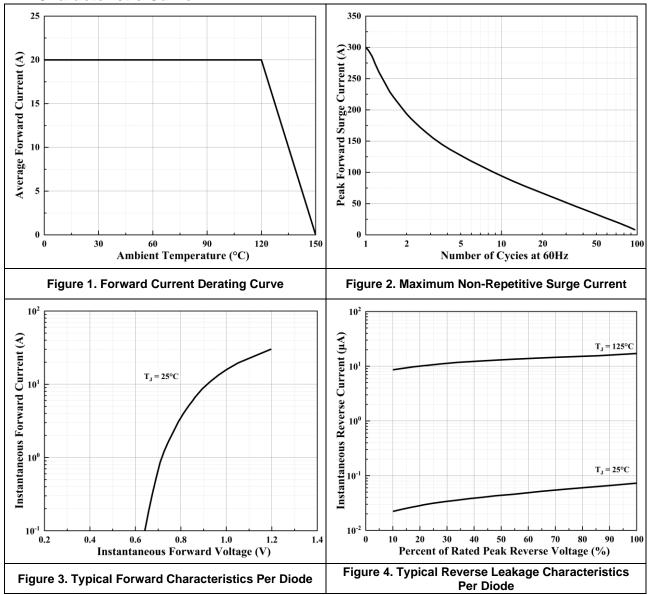
a. Junction to case with heatsink.

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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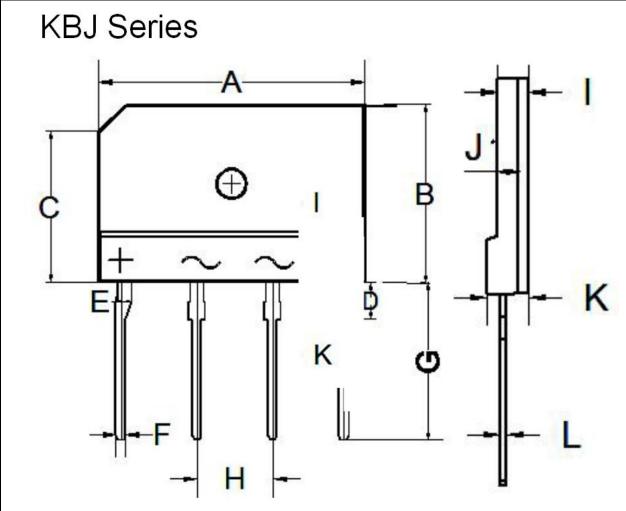
■ Characteristic Curve





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■ Package Information



Item	Min(mm)	Max (mm)
Α	24. 80	25. 30
В	14. 70	15. 30
С	11. 40	12. 00
D	3. 60	4. 20
Е	1. 70	2. 20
F	0. 95	1. 05
G	17. 30	17. 80
Н	7. 30	7. 70
I	3. 50	3. 80
J	0.80	1. 20
K	4. 40	4. 90
L	0. 45	0. 55