

4A 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

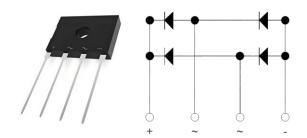
- **◆** LED Lighting
- Switch Mode Power Supply
- ♦ Household Electrical Appliances
- ◆ General Purpose Single-Phase Bridge Rectifier



◆ Case: Plastic Package

◆ Marking / Polarity: Marked on Body

◆ Weight: About 1.2 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		4.0	А
V _F	Maximum Forward Voltage Per Leg, I _{FM} = 4.0A		0.98	V
I _{FSM}	Peak Forward Surge Current Single Half Sine-wave Superimposed on Rated Load		125	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)		64	A ² S
V _{isol}	Rms Isolation Voltage from Case to Leads		2500	V
CJ	Typical Junction Capacitance		38	pF
R _θ J _C	Maximum Thermal Resistance Per Leg		4.2	°C/W
T _J , T _{STG}	Operating Junction and Storage Temperature Range		-55 to 150	°C

Notes

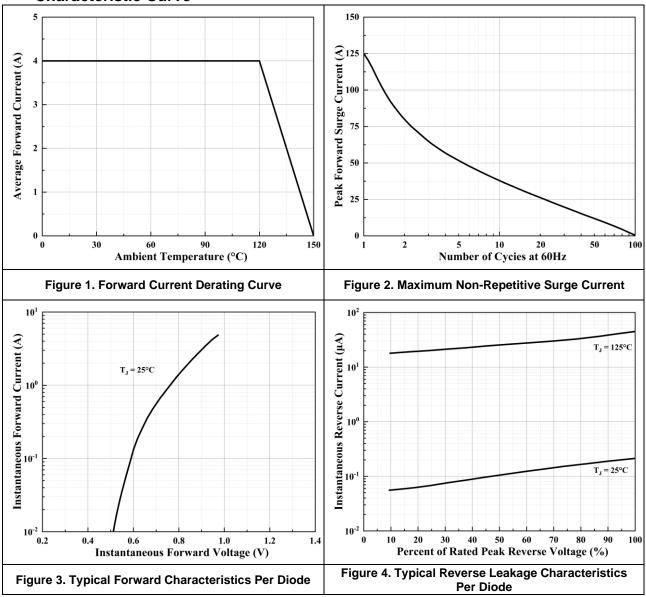
a. Junction to case with heatsink.

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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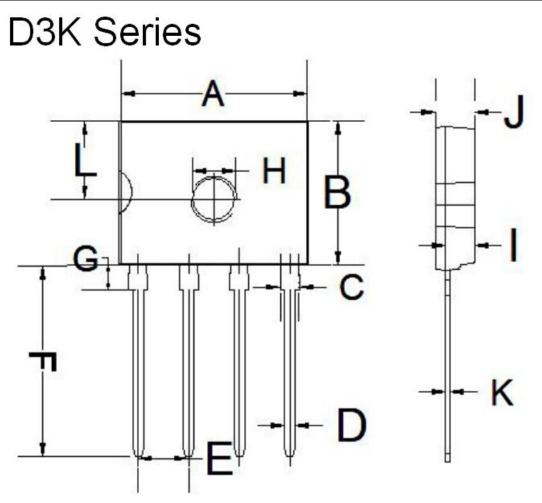
■ Characteristic Curve





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■ Package Information



Item	Min(mm)	Max (mm)
A	13. 95	14. 45
В	10.60	11.00
С	1. 30	1. 50
D	0. 77	0.83
E	3. 65	3. 95
F	14. 10	14. 70
G	1. 70	2. 10
H	3. 40	3. 60
I	2. 00	2. 40
J	2. 90	3. 10
K	0. 33	0. 37
L	5. 80	6.00