

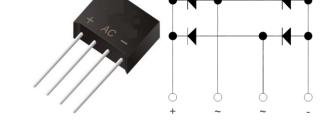
## 4A Glass Passivated Single-Phase Bridge Rectifier

#### **Features**

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

## **Application**

- ◆ Switching Mode Power Supply
- ♦ Household Electrical Appliances
- General Purpose Single-Phase Bridge Rectifier



### **Machanical Data**

◆ Case: Plastic Package

◆ Marking / Polarity: Marked on Body

♦ Weight: About 4.2 Grams

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

Symbol	Parameter		Rating	Unit
V <sub>RRM</sub>	Recurrent Peak Reverse Voltage		1000	V
I <sub>F(AV)</sub>	Average Forward Output Rectified Current, T <sub>A</sub> = 120°C		4.0	А
V <sub>F</sub>	Maximum Forward Voltage Per Leg, I <sub>FM</sub> = 4.0A		1.05	V
I <sub>FSM</sub>	Peak Forward Surge Current Single Half Sine-wave Superimposed on Rated Load		80	А
I <sub>R</sub>	Maximum DC Reverse Current at Rated DC Blocking Voltage	T <sub>A</sub> = 25°C	5.0	μА
		T <sub>A</sub> = 125°C	500	
i <sup>2</sup> t	Rating for Fusing (t < 8.3ms)		26	A <sup>2</sup> S
V <sub>isol</sub>	Rms Isolation Voltage from Case to Leads		2500	V
CJ	Typical Junction Capacitance		23	pF
$R_{\theta}J_{C}$	Maximum Thermal Resistance Per Leg		10	°C/W
T <sub>J</sub> , T <sub>STG</sub>	Operating Junction and Storage Temperature Range		-55 to 150	°C

#### Notes:

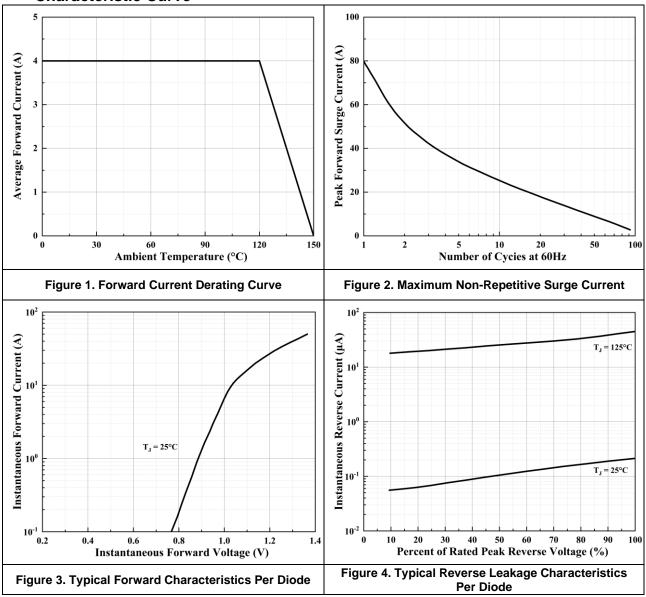
a. Junction to case with heatsink.

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

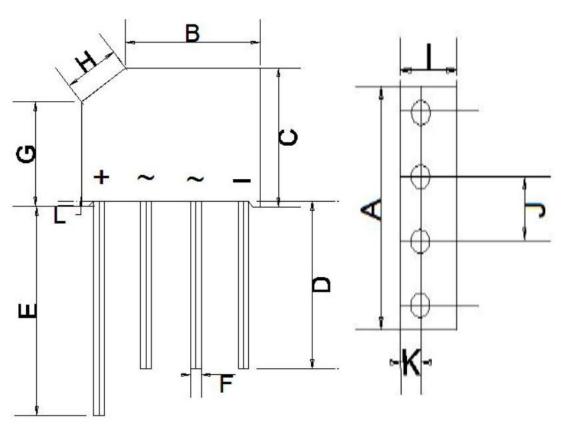




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## ■ Package Information





Item	Min(mm)	Max (mm)
A	18. 70	20. 10
В	14. 70	15. 20
С	15. 30	15. 70
D	18. 40	18.90
Е	22. 95	23. 55
F	1. 15	1. 25
G	11. 30	11.90
Н	5. 70	6. 30
I	5. 40	5. 60
J	4.70	5. 30
K	1.80	2. 20
L	0.70	1. 10