

## 8A 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**

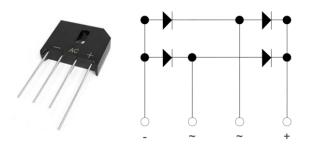
- **♦** Coffee Machine
- Induction Cooker
- ♦ Household Electrical Appliances
- ◆ General Purpose Single-Phase Bridge Rectifier



◆ Case: Plastic Package

◆ Marking / Polarity: Marked on Body

◆ Weight: About 6.66 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 <sub>F(AV)</sub>	Average Forward Output Rectified Current, T <sub>A</sub> = 120°C		8.0	А
V <sub>F</sub>	Maximum Forward Voltage Per Leg, I <sub>FM</sub> = 8.0A		1.02	V
I <sub>FSM</sub>	Peak Forward Surge Current Single Half Sine-wave Superimposed on Rated Load		160	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)		106	A <sup>2</sup> S
V <sub>isol</sub>	Rms Isolation Voltage from Case to Leads		2500	V
CJ	Typical Junction Capacitance		42	pF
R <sub>θ</sub> J <sub>C</sub>	Maximum Thermal Resistance Per Leg		4.2	°C/W
T <sub>J</sub> , T <sub>STG</sub>	Operating Junction and Storage Temperature Range		-55 to 150	°C

#### Notes:

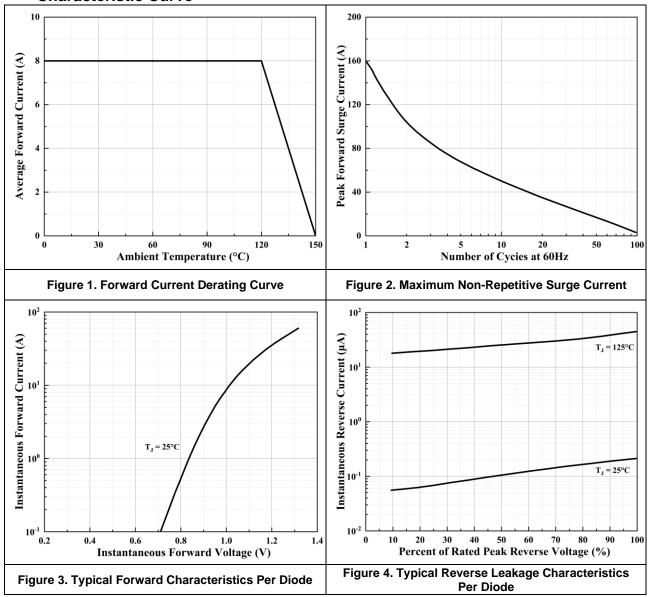
a. Junction to case with heatsink.

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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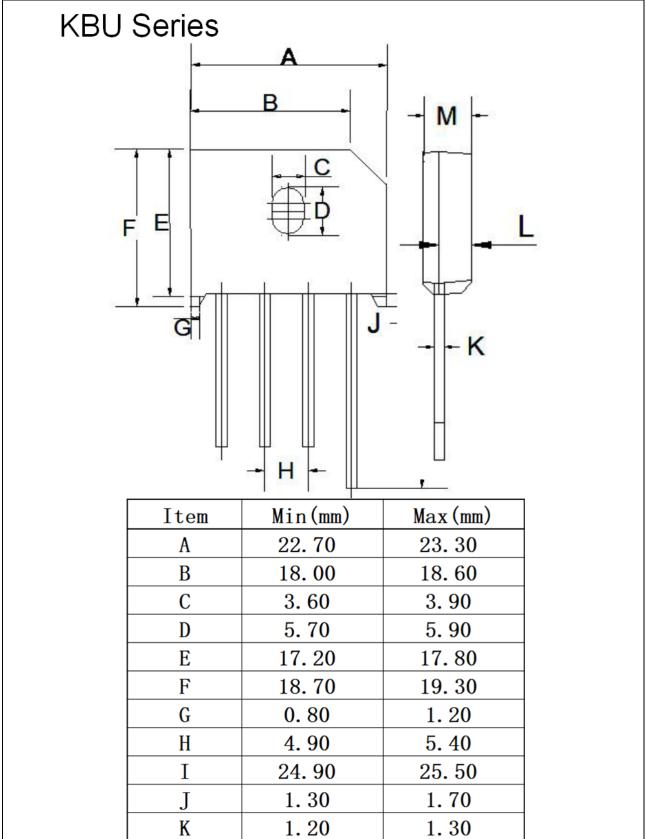
#### **■** Characteristic Curve





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### ■ Package Information



L

M

4.60

6.60

4.90

6.90