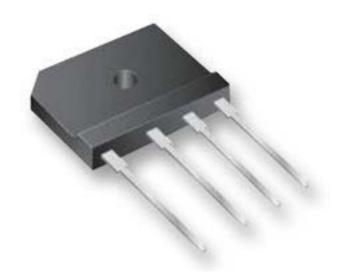
# **Bridge Rectifier**



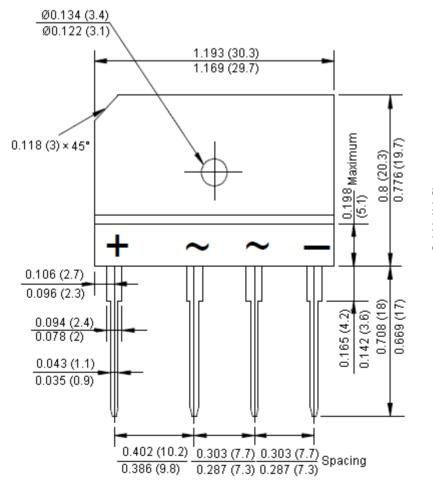


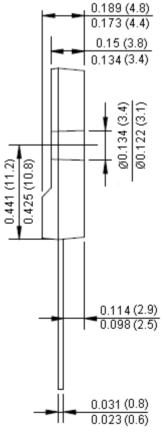
### Features:

- Glass passivated.
- Ideal for printed circuit board.
- · Low forward voltage drop, high current capability.
- Reliable low cost construction utilizing moulded plastic technique results in inexpensive product.

Reverse Voltage - 1,000 V Forward Current - 15 Amperes

#### **GBJ**





Dimensions: Inches (Millimetres)





# **Bridge Rectifier**



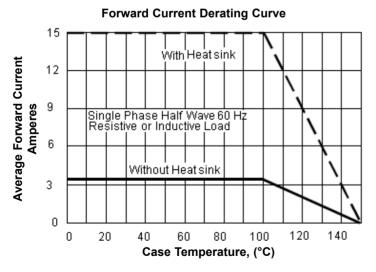
## **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

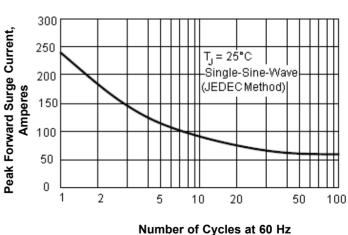
Characteristics	Symbol	GBJ1510	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	1,000	V
Maximum RMS Voltage	V <sub>RMS</sub>	700	
Maximum DC Blocking Voltage	V <sub>DC</sub>	1,000	
Maximum Average Forward (with heatsink Note 2) Rectified Current at $T_C = 100^{\circ}C$ (without heatsink)	I (AV)	15 3.2	A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	240	
Maximum Forward Voltage at 7.5 A dc	V <sub>F</sub>	1.1	V
Maximum DC Reverse Current at $T_J = 25^{\circ}$ C at Rated DC Blocking Voltage at $T_J = 125^{\circ}$ C	I <sub>R</sub>	10 500	μA
I <sup>2</sup> t Rating for Fusing (t < 8.3 ms)	l <sup>2</sup> t	240	A <sup>2</sup> s
Typical Junction Capacitance Per Element (Note1)	CJ	60	pF
Typical Thermal Resistance	$R_{ heta JC}$	0.8	°C/W
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T <sub>STG</sub>		

**Notes:** 1. Measured at 1 MHz and applied reverse voltage of 4 V dc. 2. Device mounted on 300 × 300 × 1.6 mm Cu plate heatsink.

### **Rating and Characteristics Curves**



#### **Maximum Non-Repetitive Surge Current**



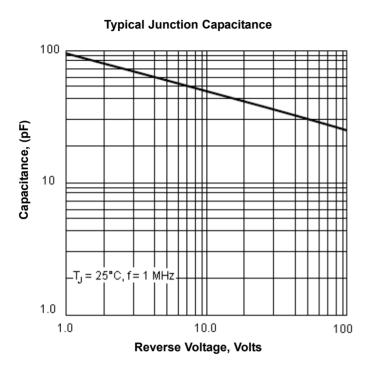
www.element14.com www.farnell.com www.newark.com

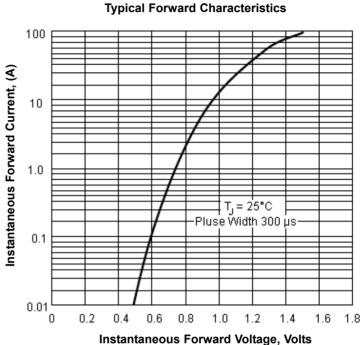


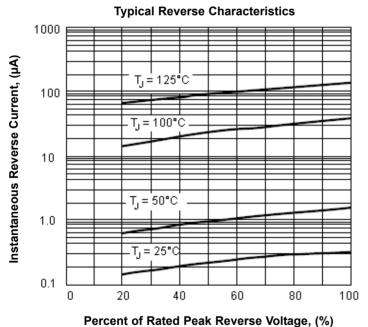
# **Bridge Rectifier**



### **Rating and Characteristics Curves**







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