# **Bridge Rectifier**



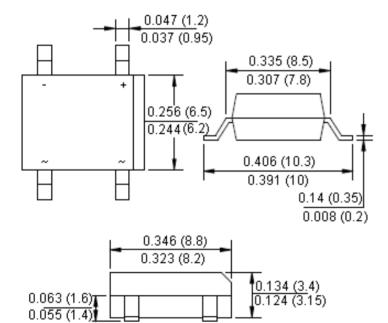


#### Features:

- · Glass passivated.
- Surface mount.
- 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 - 50 V Forward Current - 1 Ampere

#### **DBS**



Dimensions : Inches (Millimetres)

## **Mechanical Data**

Polarity : As marked on body. Weight : 0.02 oz, 0.38 g.

0.205 (5.2) 0.197 (5)

Mounting position : Any.

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



# **Bridge Rectifier**



### **Maximum Ratings and Electrical Characteristics**

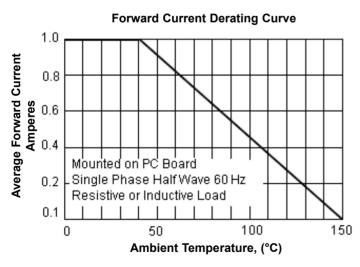
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

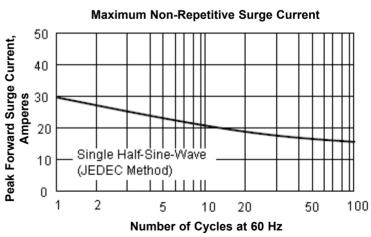
Characteristics	Symbol	DB101S	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	
Maximum Average Forward Rectified Current at T <sub>A</sub> = 40°C	I (AV)	1	A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	30	
Maximum Forward Voltage at 1 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	μА
I <sup>2</sup> t Rating for Fusing (t < 8.3 ms)	l <sup>2</sup> t	10.4	A <sup>2</sup> s
Typical Junction Capacitance Per Element (Note 1)	CJ	25	pF
Typical Thermal Resistance (Note 2)	$R_{ heta JA}$	40	°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. Thermal resistance from junction to ambient mounted on P C B with 0.5 × 0.5" (13 × 13 mm) copper pads.

### **Ratings and Characteristics Curves**





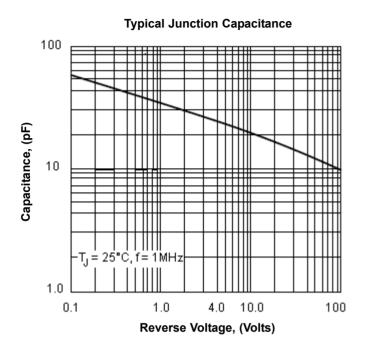


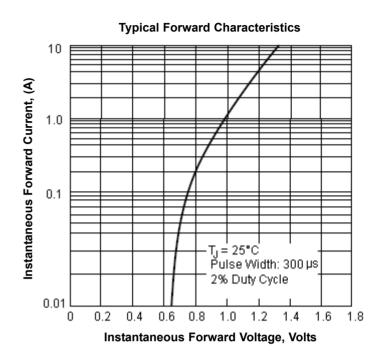


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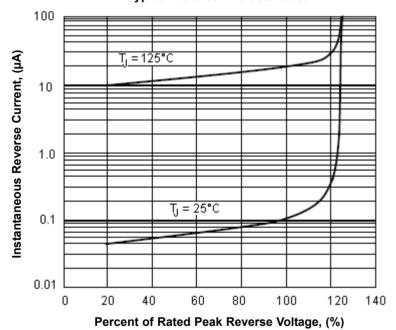


### **Ratings and Characteristics Curves**





#### **Typical Reverse Characteristics**



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