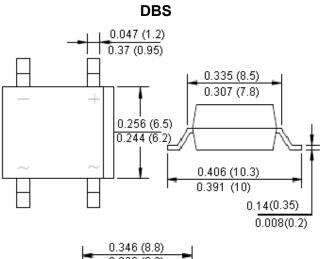
# Bridge Rectifier DB101S thru DB107S





#### Features:

- Rating to 1,000 V PRV.
- Ideal for printed circuit board.
- Low forward voltage drop, high current capability.
- Reliable low cost construction utilizing moulded plastic technique results in inexpensive product.



0.063 (1.6) 0.055 (1.4) 0.205 (5.2) 0.134 (3.4) 0.124 (3.15)

Dimensions: Inches (Millimetres)

Reverse Voltage : 50 to 1,000 Volts. Forward Current : 1 Ampere.

### **Mechanical Data**

Polarity : As marked on body.

Mounting position: Any.



# Bridge Rectifier DB101S thru DB107S



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

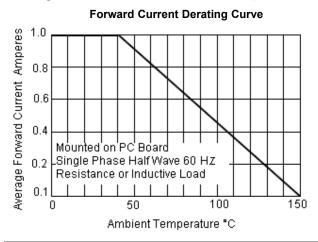
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

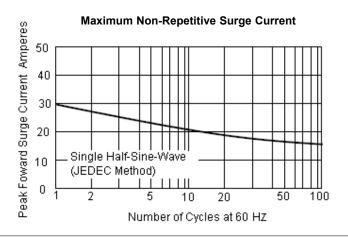
Characteristics	Symbol	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1,000	
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1,000	
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 $T_J = 25$ °C at Rated DC Blocking Voltage at $T_J = 125$ °C	I <sub>R</sub>	10 500							μΑ
I <sup>2</sup> t Rating For Fusing (t < 8.3 ms)	I <sup>2</sup> t	10.4							A <sup>2</sup> S
Typical Junction Capacitance per Element (Note 1)	СЈ	25							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40							°C / W
Operating Temperature Range	T <sub>J</sub>		55 to 1450						
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

#### Note:

- 1. Measured at 1 MHz and applied reverse voltage of 4 V dc.
- Thermal resistance from junction to ambient mounted on PCB with 0.5 x 0.5 Inches (13 x 13 mm) copper pads.

#### Rating and Characteristic Curves (DB101S thru DB107S)





http://www.element14.com http://www.farnell.com http://www.newark.com



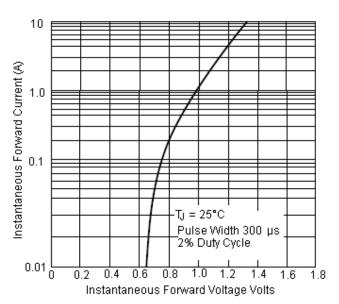
# Bridge Rectifier DB101S thru DB107S



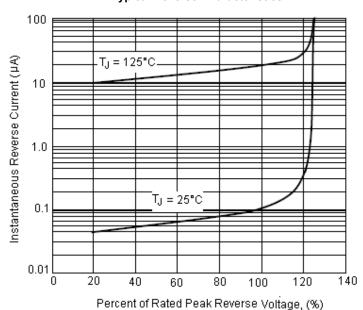
### Rating and Characteristic Curves (DB101S thru DB107S)

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#### **Typical Forward Characteristics**



#### **Typical Reverse Characteristics**



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