Bridge Rectifier



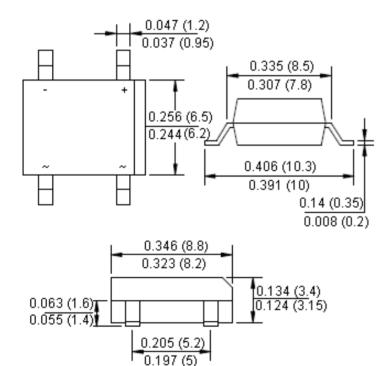


Features:

- · 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 - 600 V Forward Current - 1 Ampere

DBS



Dimensions : Inches (Millimetres)

Mechanical Data

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

Mounting position : Any.

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



Bridge Rectifier



Maximum Ratings and Electrical Characteristics

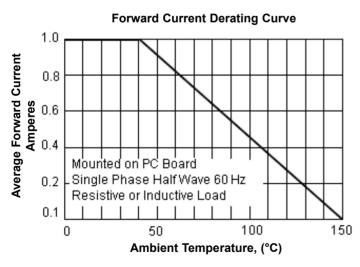
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

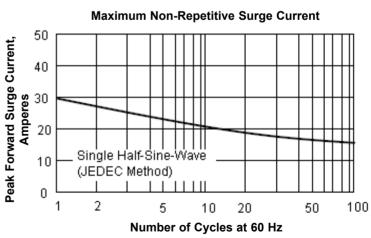
Characteristics	Symbol	DB105S	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	600	V
Maximum RMS Voltage	V _{RMS}	420	
Maximum DC Blocking Voltage	V _{DC}	600	
Maximum Average Forward Rectified Current at T _A = 40°C	I (AV)	1	A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	30	
Maximum Forward Voltage at 1 A dc	V _F	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 _R	10 500	μА
I ² t Rating for Fusing (t < 8.3 ms)	l ² t	10.4	A ² s
Typical Junction Capacitance Per Element (Note 1)	C _J	25	pF
Typical Thermal Resistance (Note 2)	$R_{ heta JA}$	40	°C/W
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}		

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





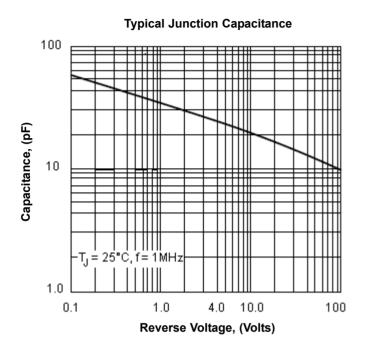


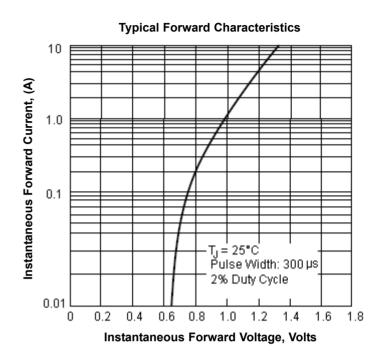


Bridge Rectifier

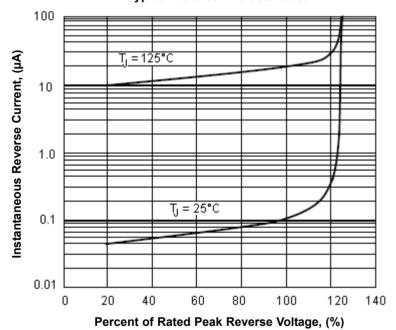


Ratings and Characteristics Curves





Typical Reverse Characteristics



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