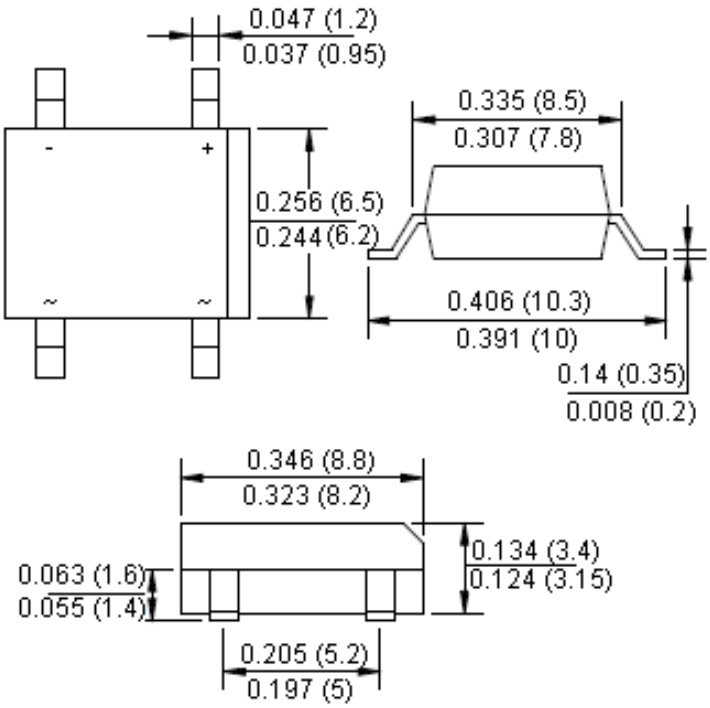
Bridge Rectifier

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.

Maximum Ratings and Electrical Characteristics

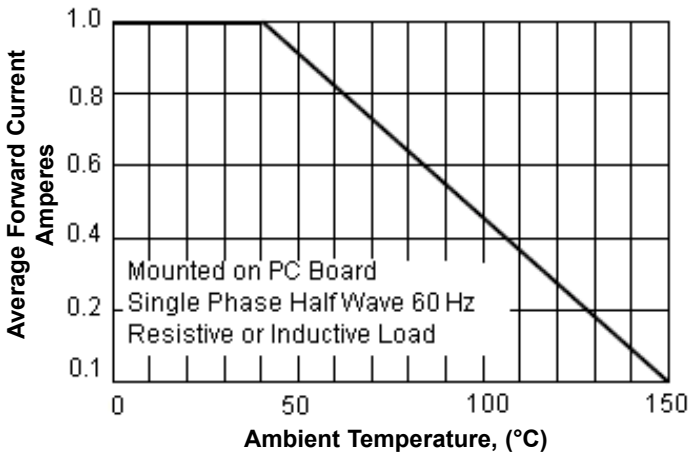
Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

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°C at Rated DC Blocking Voltage at T_J = 125°C	I_R	10 500	µA
I^2t Rating for Fusing (t < 8.3 ms)	I^2t	10.4	A^2s
Typical Junction Capacitance Per Element (Note 1)	C_J	25	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}		

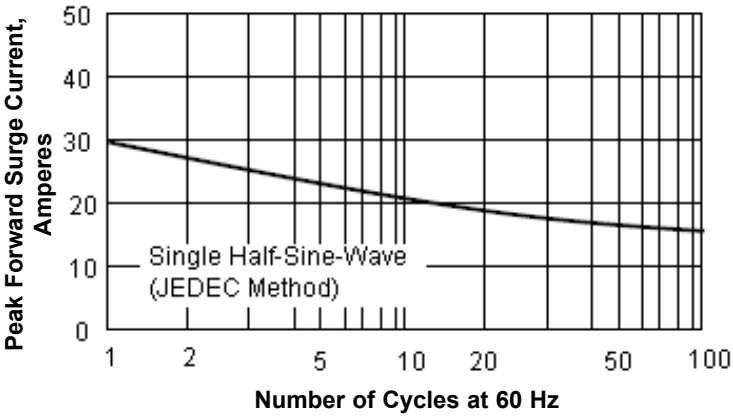
Notes : 1. Measured at 1 MHz and applied reverse voltage of 4 V dc.
2. Thermal resistance from junction to ambient mounted on P C B with 0.5 × 0.5" (13 × 13 mm) copper pads.

Ratings and Characteristics Curves

Forward Current Derating Curve

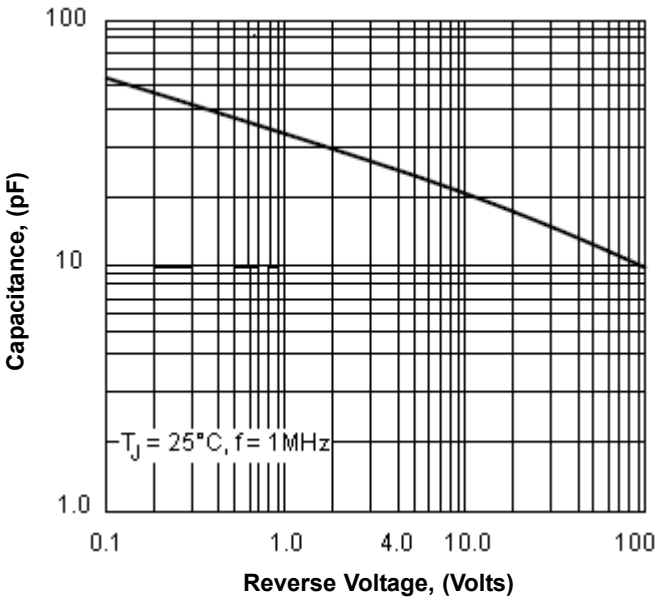


Maximum Non-Repetitive Surge Current

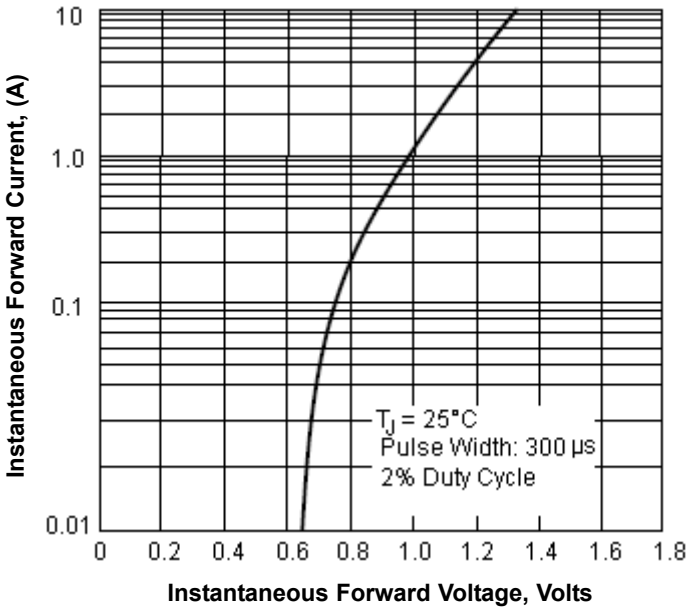


Ratings and Characteristics Curves

Typical Junction Capacitance



Typical Forward Characteristics



Typical Reverse Characteristics