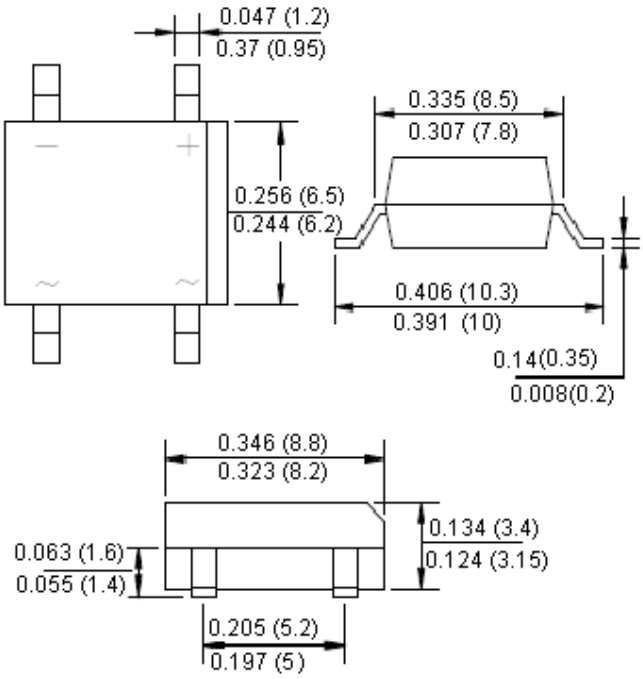
Bridge Rectifier

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.

DBS



Dimensions : Inches (Millimetres)

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

Mechanical Data

Polarity : As marked on body.
Mounting position : Any.

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DB101S thru DB107S

Maximum Ratings and Electrical Characteristics

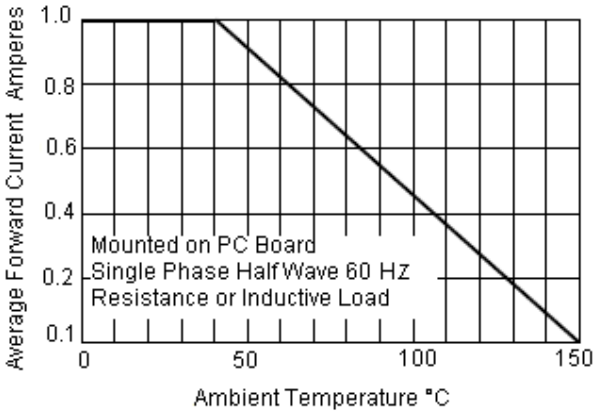
Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristics	Symbol	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1,000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1,000	
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}								

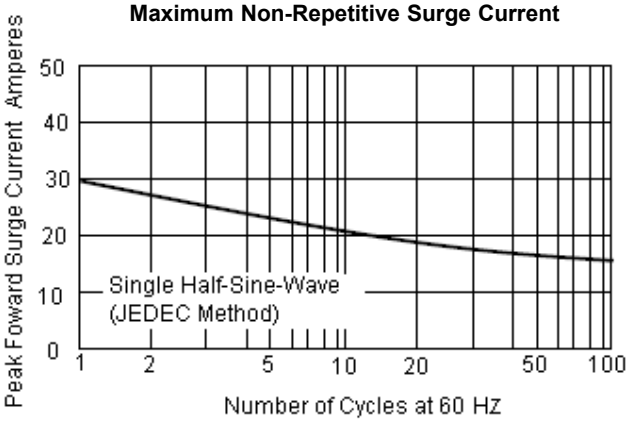
Note:
1. Measured at 1 MHz and applied reverse voltage of 4 V dc.
2. Thermal resistance from junction to ambient mounted on PCB with 0.5 × 0.5 Inches (13 × 13 mm) copper pads.

Rating and Characteristic Curves (DB101S thru DB107S)

Forward Current Derating Curve



Maximum Non-Repetitive Surge Current



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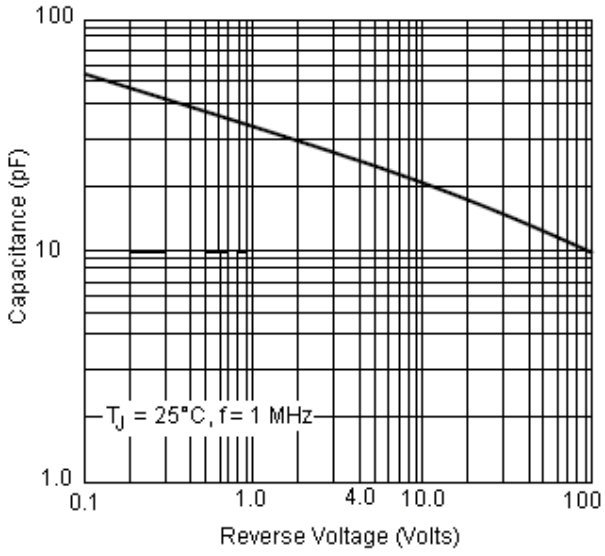
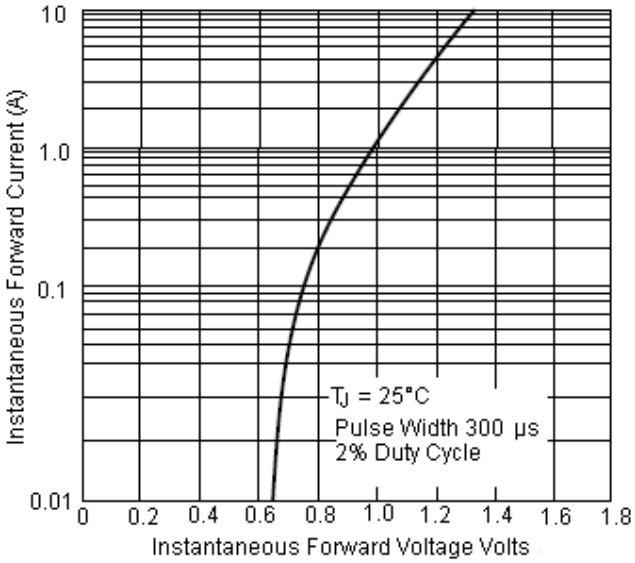
Rating and Characteristic Curves (DB101S thru DB107S)

Typical Junction Capacitance



Typical Forward Characteristics



Typical Reverse Characteristics