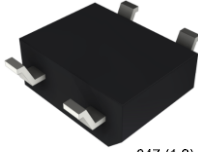
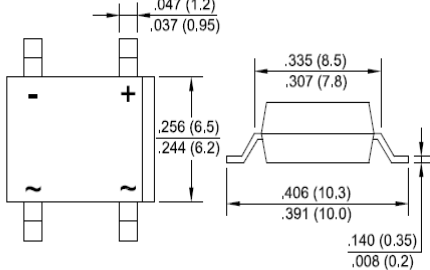
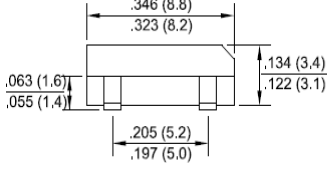
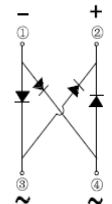





DB101S THRU DB107S

Surface Mount Glass Passivated Bridge Rectifiers	Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Amperes
<p>Features</p> <ul style="list-style-type: none"> ● Glass passivated chip ● Ideal for automatic placement ● High surge forward current capability ● Reliable low cost construction utilizing molded plastic technique ● Lead tin plated copper ● AEC-Q101 qualified <p>Mechanical Data</p> <ul style="list-style-type: none"> ● Polarity: Symbol marked on body ● Mounting position: Any <p>Applications</p> <ul style="list-style-type: none"> ● General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc. 	<p>DBS</p>     <p style="text-align: right;">  </p> <p style="text-align: center;">Package Outline Dimensions in Inches (Millimeters)</p>

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _A =40 °C	I _(AV)	1.0							A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30							A
I ² t Rating for Fusing (t<8.3mS)	I ² t	3.7							A ² s
Peak Forward Voltage per Diode at 1.0A DC	V _F	1.1							V
Maximum DC Reverse Current at Rated @T _J =25°C	I _R	10							µA
DC Blocking Voltage per Diode @T _J =125°C		500							
Typical Junction Capacitance (Note1)	C _J	25							pF
Typical Thermal Resistance Junction to Ambient (Note2)	R _{θJA}	40							°C/W
Operating Junction Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to ambient mounted on P.C.B ,with 0.5*0.5"(13*13mm) copper pads.

3.The typical data above is for reference only .

DB10*S-U-00-A001
Rev. 9, 22-Apr-2019

Fig. 1 - Forward Current Derating Curve

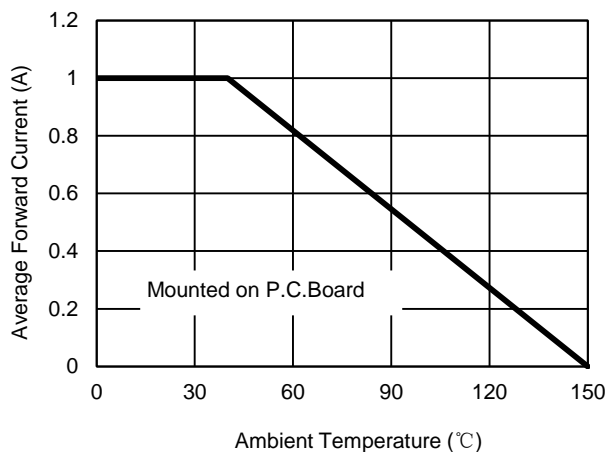


Fig. 2 - Maximum Non-Repetitive Surge Current

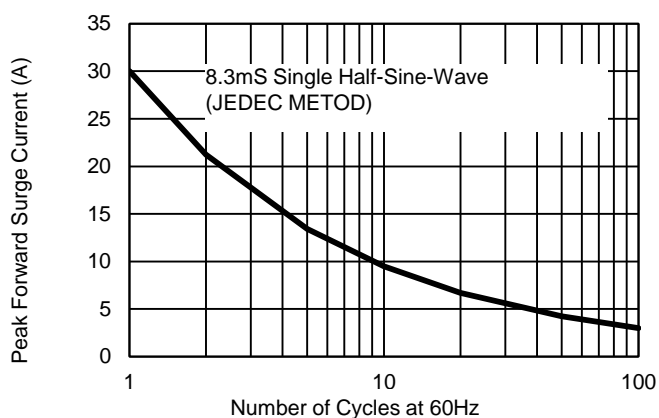


Fig. 3 - Typical Reverse Characteristics

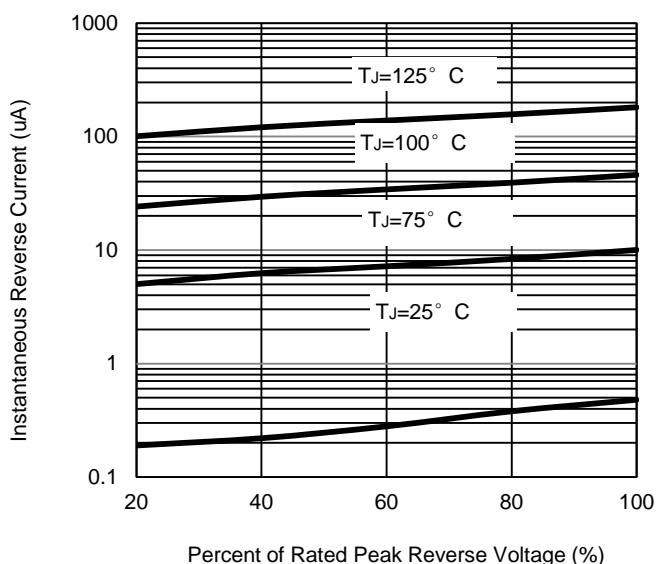


Fig. 4 - Typical Forward Characteristics

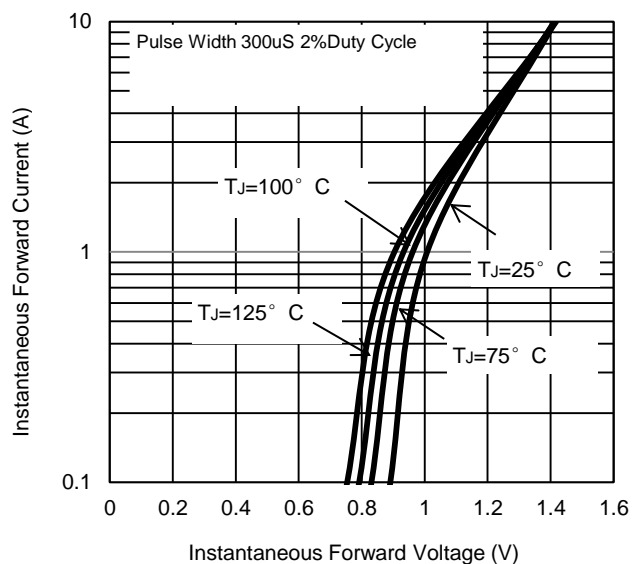
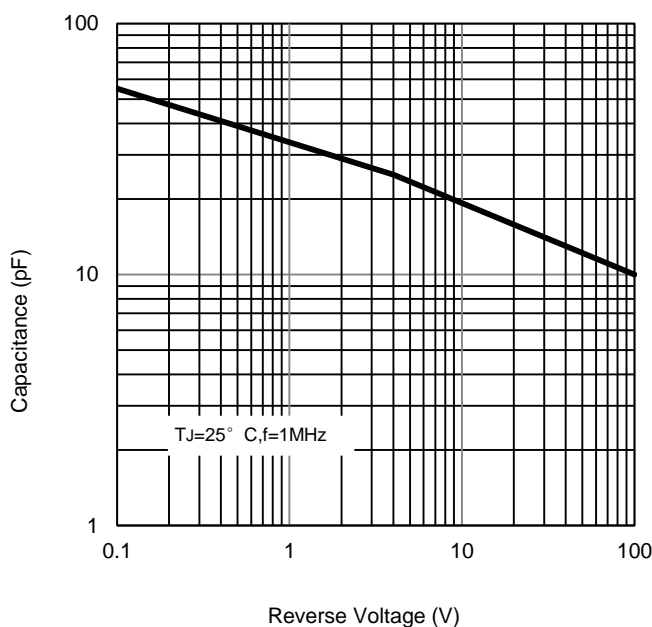


Fig. 5 - Typical Junction Capacitance



The curve above is for reference only.

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