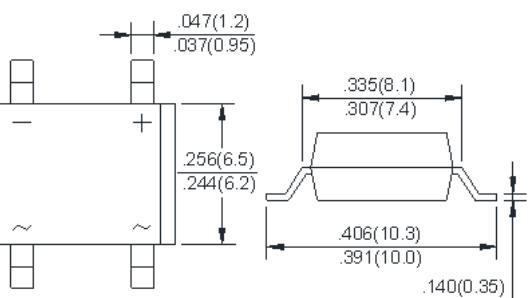
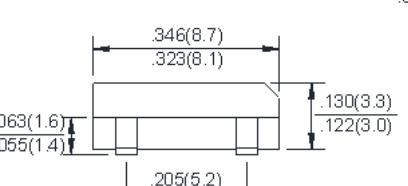


Glass Passivated Bridge Rectifiers	Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Amperes
<b>Features</b> <ul style="list-style-type: none"> <li>● Glass passivated chip</li> <li>● High surge forward current capability</li> <li>● Reliable low cost construction utilizing molded plastic technique</li> <li>● Lead tin plated copper</li> <li>● Meet UL flammability classification 94V-0</li> </ul>	 <b>DBS</b> 
<b>Mechanical Data</b> <ul style="list-style-type: none"> <li>● Polarity: Symbol marked on body</li> <li>● Mounting position: Any</li> </ul>	
<b>Applications</b> <ul style="list-style-type: none"> <li>● General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.</li> </ul>	

## 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 <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>A</sub> =40 °C	I <sub>(AV)</sub>	1.0						A	
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	30						A	
I <sup>2</sup> t Rating for Fusing (t<8.3mS)	I <sup>2</sup> t	3.7						A <sup>2</sup> s	
Peak Forward Voltage per Diode at 1.0A DC	V <sub>F</sub>	1.1						V	
Maximum DC Reverse Current at Rated @T <sub>J</sub> =25°C	I <sub>R</sub>	10						μA	
DC Blocking Voltage per Diode @T <sub>J</sub> =125°C		500							
Typical Junction Capacitance (Note1)	C <sub>J</sub>	25						pF	
Typical Thermal Resistance Junction to Ambient (Note2)	R <sub>θJA</sub>	40						°C/W	
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150						°C	
Storage Temperature Range	T <sub>TSG</sub>	-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.

# Rating and Characteristic Curves

DB101S THRU DB107S



Fig. 1 - Forward Current Derating Curve

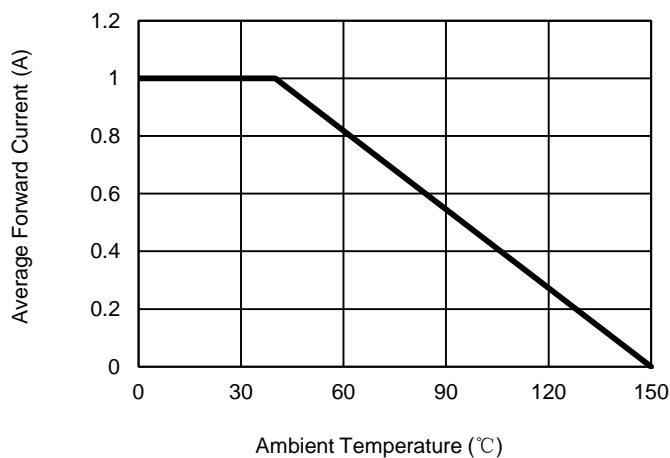


Fig. 2 - Maximum Non-Repetitive Surge Current

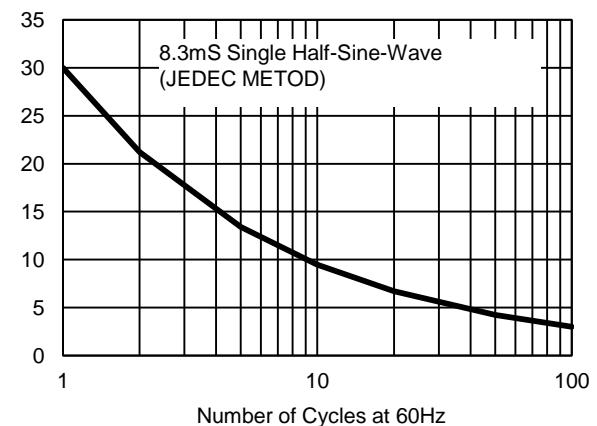


Fig. 3 - Typical Reverse Characteristics

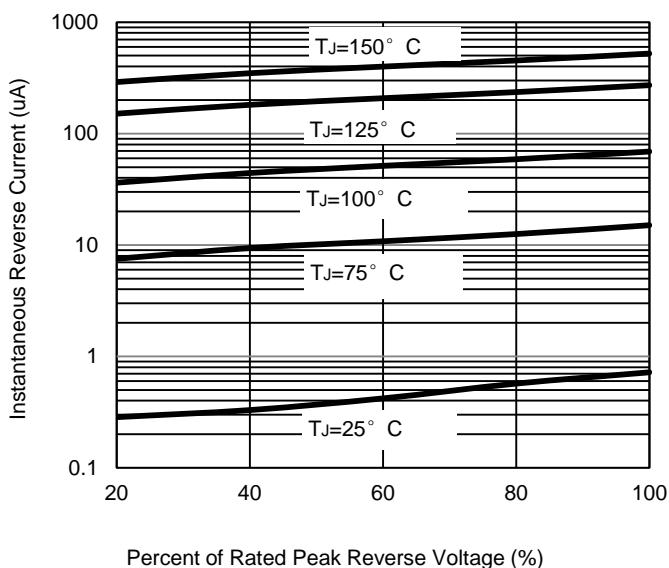


Fig. 4 - Typical Forward Characteristics

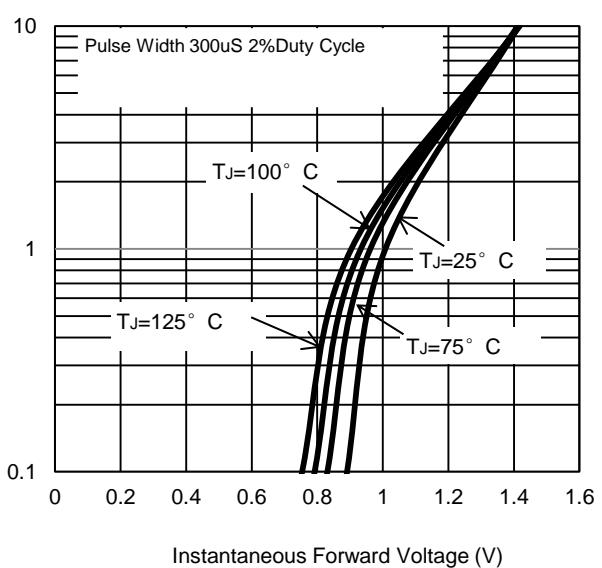
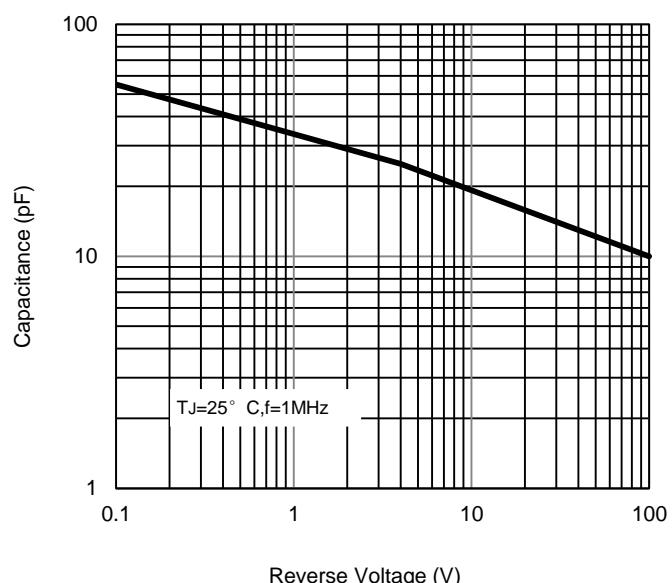


Fig. 5 - Typical Junction Capacitance



The curve above is for reference only.