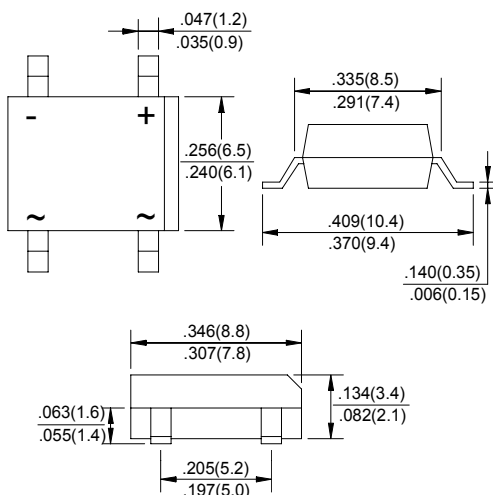


BRIDGE RECTIFIERS	Voltage Range - 50 to 1000 Volts Current -1.0 Ampere								
<p style="text-align: center;"><b>BDS</b></p>  <p style="text-align: center;">Dimensions in inches and (millimeters)</p>	<p><b>Features</b></p> <ul style="list-style-type: none"> <li>◆ Rating to 1000V PRV</li> <li>◆ Ideal for printed circuit board</li> <li>◆ Low forward voltage drop, high current capability</li> <li>◆ Reliable low cost construction utilizing molded plastic technique results in inexpensive product</li> <li>◆ The plastic material has UL flammability classification 94V-0</li> </ul> <p><b>Mechanical Data</b></p> <p><b>Case:</b> Molded plastic body  <b>Polarity:</b> As marked  <b>Mounting position :</b> Any  <b>Weight:</b> 0.02 ounces, 0.38 grams</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 Recurrent 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	I <sub>(AV)</sub>	1.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	30							A
Maximum Forward Voltage at 1.0A DC	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	500							μA
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	10.4							A <sup>2</sup> s
Typical Junction Capacitance Per Element (Note1)	C <sub>J</sub>	25							pF
Typical Thermal Resistance (Note2)	R <sub>θJA</sub>	40							°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C
Note: 1. Measured at 1.0MHz 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.									

**RATINGS AND CHARACTERISTIC CURVES DB101S THRU DB107S**

