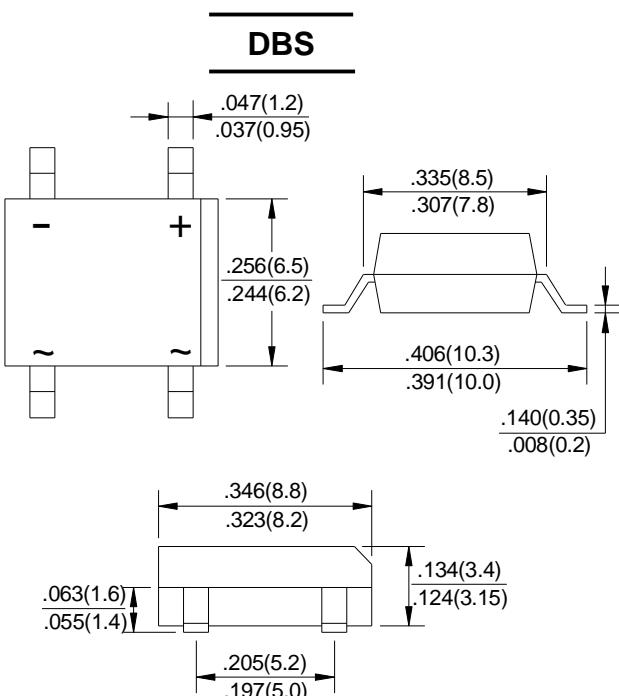


GLASS PASSIVATED BRIDGE RECTIFIERS	REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 1.0 Amperes																																																																																																																																		
<b>FEATURES</b> <ul style="list-style-type: none"> <li>● Rating to 1000V 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>● Lead tin Pb/Sn copper</li> <li>● The plastic material has UL flammability classification 94V-0</li> </ul>	 <p><b>DBS</b></p> <p>Dimensions in inches and (millimeters)</p>																																																																																																																																		
<b>MECHANICAL DATA</b> <ul style="list-style-type: none"> <li>● Polarit: As marked on Body</li> <li>● Weight: 0.02 ounces, 0.38 grs</li> <li>● Mounting position: Any</li> </ul>																																																																																																																																			
	<p><b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b></p> <p>Rating at 25°C ambient temperature unless otherwise specified.</p> <p>Single phase, half wave, 60Hz, resistive or inductive load.</p> <p>For capacitive load, derate current by 20%</p> <table border="1"> <thead> <tr> <th>CHARACTERISTICS</th><th>SYMBOL</th><th>DB101S</th><th>DB102S</th><th>DB103S</th><th>DB104S</th><th>DB105S</th><th>DB106S</th><th>DB107S</th><th>UNIT</th></tr> </thead> <tbody> <tr> <td>Maximum Recurrent Peak Reverse Voltage</td><td>V<sub>RRM</sub></td><td>50</td><td>100</td><td>200</td><td>400</td><td>600</td><td>800</td><td>1000</td><td>V</td></tr> <tr> <td>Maximum RMS Voltage</td><td>V<sub>RMS</sub></td><td>35</td><td>70</td><td>140</td><td>280</td><td>420</td><td>560</td><td>700</td><td>V</td></tr> <tr> <td>Maximum DC Blocking Voltage</td><td>V<sub>DC</sub></td><td>50</td><td>100</td><td>200</td><td>400</td><td>600</td><td>800</td><td>1000</td><td>V</td></tr> <tr> <td>Maximum Average Forward Rectified Current @T<sub>A</sub>=40°C</td><td>I<sub>(AV)</sub></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>A</td></tr> <tr> <td>Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)</td><td>I<sub>FSM</sub></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>A</td></tr> <tr> <td>Maximum Forward Voltage at 1.0A DC</td><td>V<sub>F</sub></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>V</td></tr> <tr> <td>Maximum DC Reverse Current @T<sub>J</sub>=25°C at Rated DC Blocking Voltage @T<sub>J</sub>=125°C</td><td>I<sub>R</sub></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>uA</td></tr> <tr> <td>I<sup>2</sup>t Rating for Fusing (t&lt;8.3ms)</td><td>I<sup>2</sup>t</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>A<sup>2</sup>s</td></tr> <tr> <td>Typical Junction Capacitance Per Element (Note1)</td><td>C<sub>J</sub></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>pF</td></tr> <tr> <td>Typical Thermal Resistance (Note2)</td><td>R<sub>θJC</sub></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>°C/W</td></tr> <tr> <td>Operating Temperature Range</td><td>T<sub>J</sub></td><td></td><td></td><td></td><td>-55 to +150</td><td></td><td></td><td></td><td>°C</td></tr> <tr> <td>Storage Temperature Range</td><td>T<sub>STG</sub></td><td></td><td></td><td></td><td>-55 to +150</td><td></td><td></td><td></td><td>°C</td></tr> </tbody> </table> <p>Note:1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.</p> <p>2. Thermal resistance from junction to ambient mounted on P.C.B. with 0.5*0.5"(13*13mm) copper pads.</p>	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 @T <sub>A</sub> =40°C	I <sub>(AV)</sub>								A	Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>								A	Maximum Forward Voltage at 1.0A DC	V <sub>F</sub>								V	Maximum DC Reverse Current @T <sub>J</sub> =25°C at Rated DC Blocking Voltage @T <sub>J</sub> =125°C	I <sub>R</sub>								uA	I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t								A <sup>2</sup> s	Typical Junction Capacitance Per Element (Note1)	C <sub>J</sub>								pF	Typical Thermal Resistance (Note2)	R <sub>θJC</sub>								°C/W	Operating Temperature Range	T <sub>J</sub>				-55 to +150				°C	Storage Temperature Range	T <sub>STG</sub>				-55 to +150				°C
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# RATING AND CHARACTERISTIC CURVES

## DB101S thru DB107S

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