

<b>SILICON BRIDGE RECTIFIERS</b>	<p>REVERSE VOLTAGE - <b>50 to 1000Volts</b></p> <p>FORWARD CURRENT - <b>10.0 Amperes</b></p>
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>● Surge overload rating -240 amperes peak</li> <li>● Low forward voltage drop</li> <li>● Small size; simple installation</li> <li>● Sliver plated copper leads</li> <li>● Mounting position: Any</li> </ul>	<p><b>BR8</b></p> <p style="text-align: center;">Polarity shown on side of case, Positive lead by beveled corner.</p> <p style="text-align: center;">Dimensions in inches and (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	BR 10005S	BR 1001S	BR 1002S	BR 1004S	BR 1006S	BR 1008S	BR 1010S	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	v
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	v
Maximum Average Forward Rectified Output Current at T <sub>A</sub> =50°C	I <sub>(AV)</sub>	10.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>	240							A
Maximum Forward Voltage Drop Per Bridge Element at 5.0A Peak	V <sub>F</sub>	1.0							V
Maximum Reverse Current at Rated T <sub>J</sub> =25°C	I <sub>R</sub>	10.0							μA
DC Blocking Voltage Per Element T <sub>J</sub> =100°C		1.0							mA
Operating Temperature Range	T <sub>J</sub>	-55 to +125							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

FIG.1-DERATING CURVE  
 OUTPUT RECTIFIED CURRENT

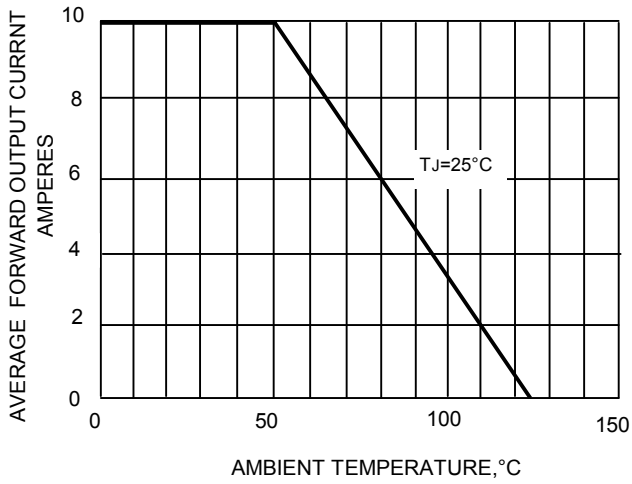


FIG.2-MAXIMUM FORWARD SURGE CURRENT

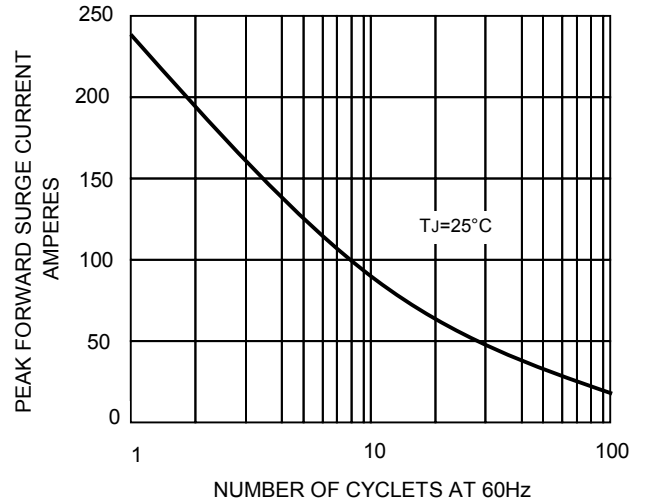


FIG.3-TYPICAL FORWARD CHARACTERISTICS

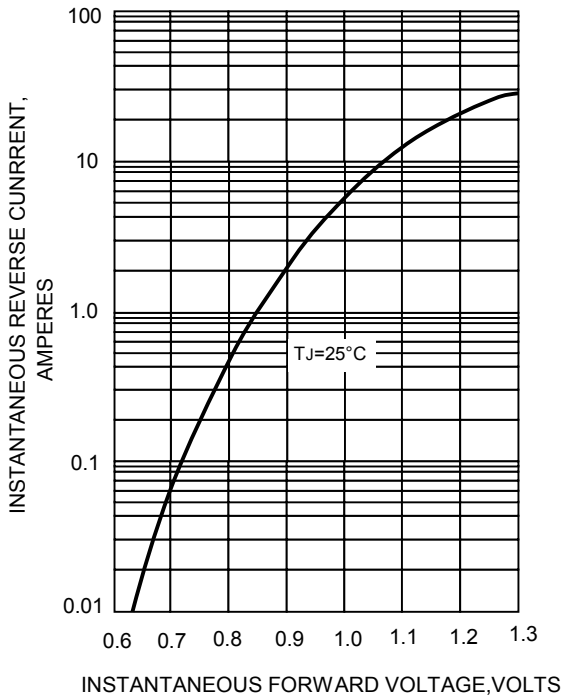


FIG.4-TYPICAL REVERSE CHARACTERISTICS

