

<b>SILICON BRIDGE RECTIFIERS</b>	<p>REVERSE VOLTAGE - <b>50 to 1000</b>Volts          FORWARD CURRENT - <b>3.0</b> Amperes</p>
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>● Surge overload rating - 50 amperes peak</li> <li>● Low forward voltage drop</li> <li>● Small size; simple installation</li> <li>● Tinned copper leads</li> <li>● Mounting position: Any</li> <li>● Mounting: Thru hole for #6 screw</li> </ul>	<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	BR3005	BR301	BR302	BR304	BR306	BR308	BR310	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	v
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	v
Maximum Average Forward Rectified Output Current at TA=50°C	I(AV)	3.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	IFSM	50							A
Maximum Forward Voltage Drop Per Bridge Element at 1.5A Peak	VF	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element	IR	10.0 1.0							μA mA
Operating Temperature Range	TJ	-55 to +125							°C
Storage Temperature Range	TSTG	-55 to +150							°C

FIG.1-MXIMUM NON-REPETITIVE SURGE CURRENT

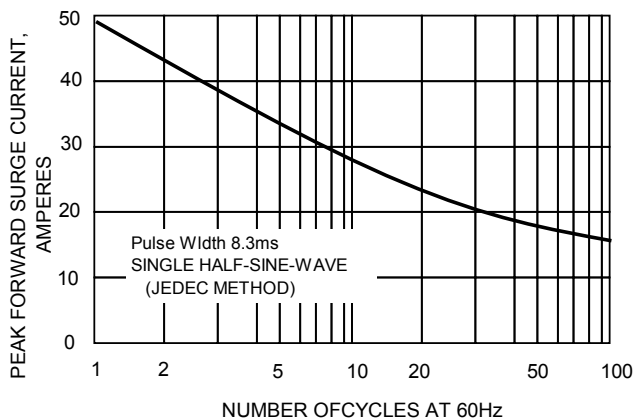


FIG.2-DERATING CURVE  
 OUTPUT RECTIFIED CURRENT

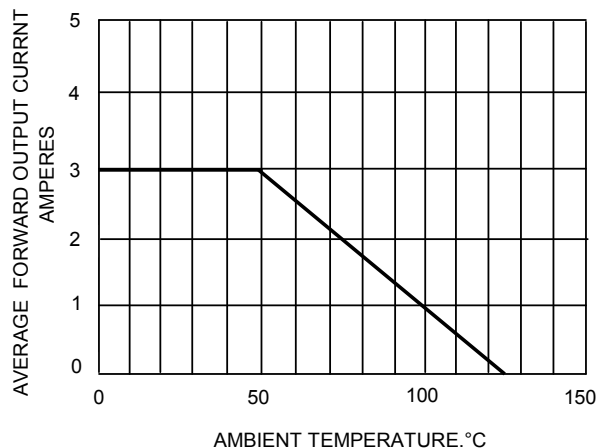


FIG.3-TYPICAL FORWARD CHARACTERISTICS

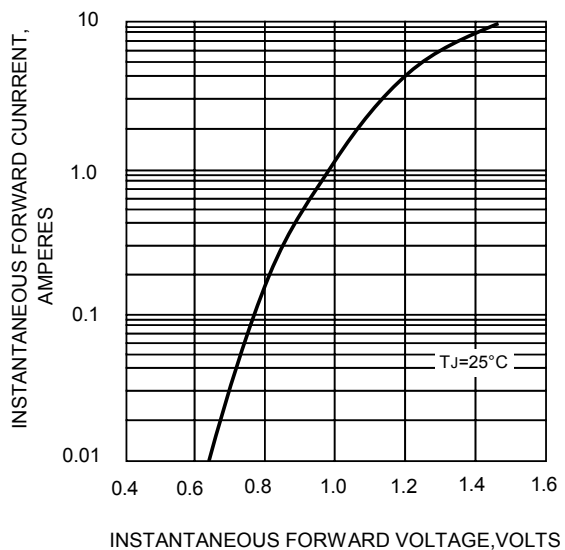


FIG.4-TYPICAL REVERSE CHARACTERISTICS

