

<b>SILICON BRIDGE RECTIFIERS</b>	<p>REVERSE VOLTAGE - 50 to 1000Volts          FORWARD CURRENT - 10/15/25/35/50 Amperes</p>
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>● Surge overload -240~500 amperes peak</li> <li>● Low forward voltage drop</li> <li>● Mounting position: Any</li> <li>● Electrically isolated base -2000 Volts</li> <li>● Solderable 0.25" FASTON terminals</li> <li>● Materials used carries U/L recognition</li> </ul>	<p><b>MBRW</b></p> <p>Dimensions in inches and (millimeters)</p>

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless otherwise specified.  
 Resistive or inductive load 60HZ.  
 For capacitive load current by 20%

CHARACTERISTICS	SYMBOL	MBR-W										UNIT				
		10005		1001		1002		1004		1006			1008		1010	
		15005		1501		1502		1504		1506			1508		1510	
		25005		2501		2502		2504		2506			2508		2510	
		35005		3501		3502		3504		3506			3508		3510	
		50005		5001		5002		5004		5006			5008		5010	
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>	30		70		140		280		420		560		700		V
Maximum Average Forward Rectified Output Current at @T <sub>c</sub> =55°C	I <sub>(AV)</sub>	MBR	10	MBR	15	MBR	25	MBR	35	MBR	50					A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>		10W		240		15W		300		25W	400	35W	400	50W	500
Maximum Forward Voltage Drop Per Element at 5.0/7.5/12.5/17./25.0 Peak	V <sub>F</sub>	1.1										V				
Maximum Reverse Current at Rated DC Blocking Voltage Per Element @T <sub>A</sub> =25°C	I <sub>R</sub>	10.0										uA				
Operating Temperature Rang	T <sub>J</sub>	-55 to +125										°C				
Storage Temperature Rang	T <sub>STG</sub>	-55 to +125										°C				

FIG.1-MAXIMUM FORWARD SURGE CURRENT

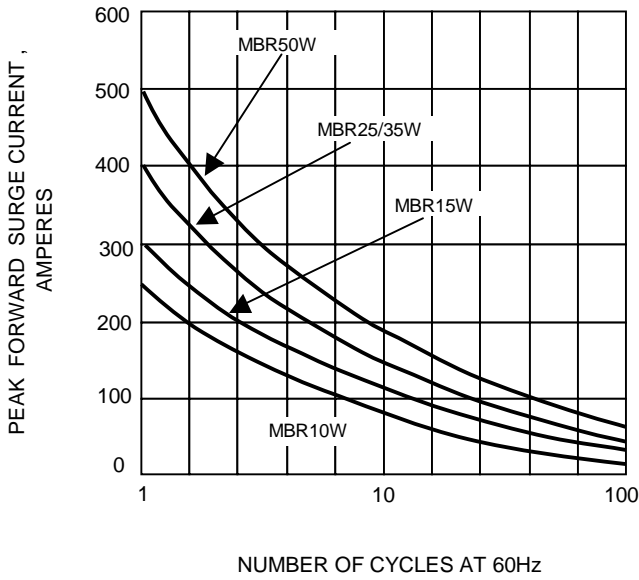


FIG. 2 – DERATING CURVE OUTPUT RECTIFIED CURRENT

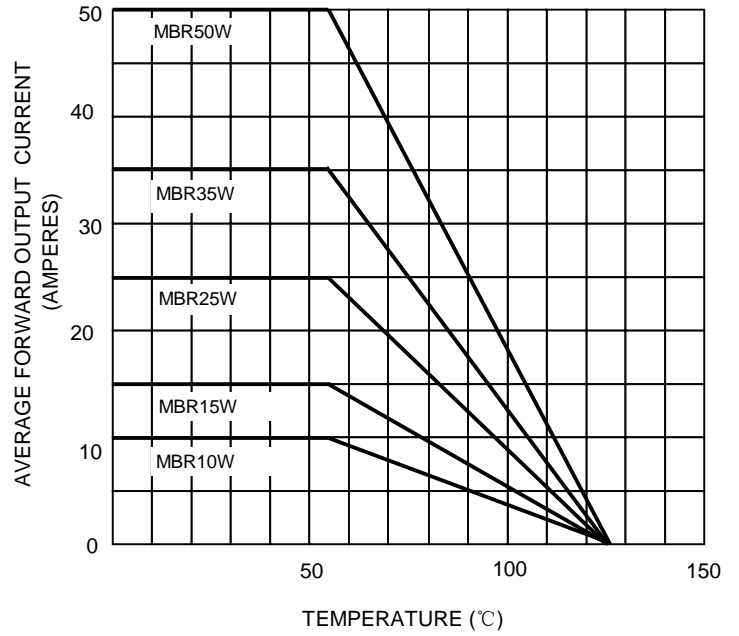


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

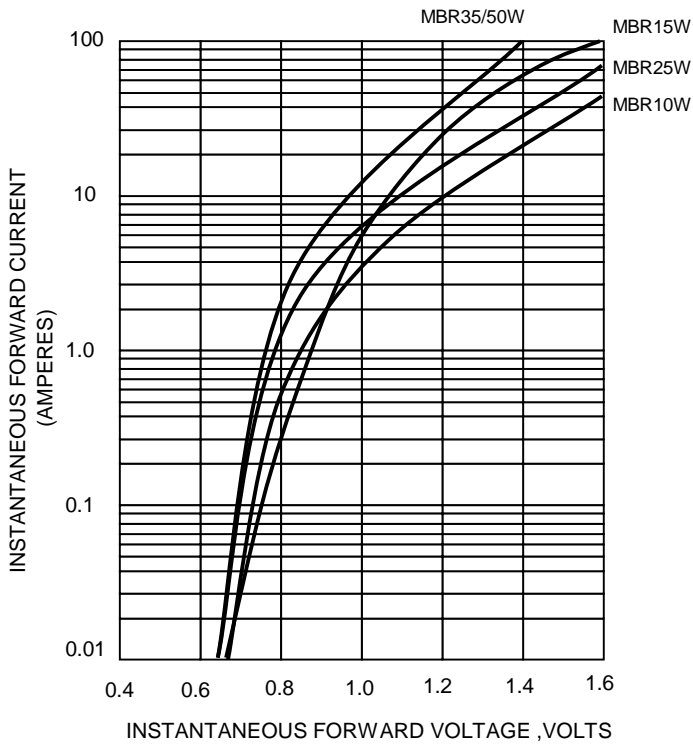


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

