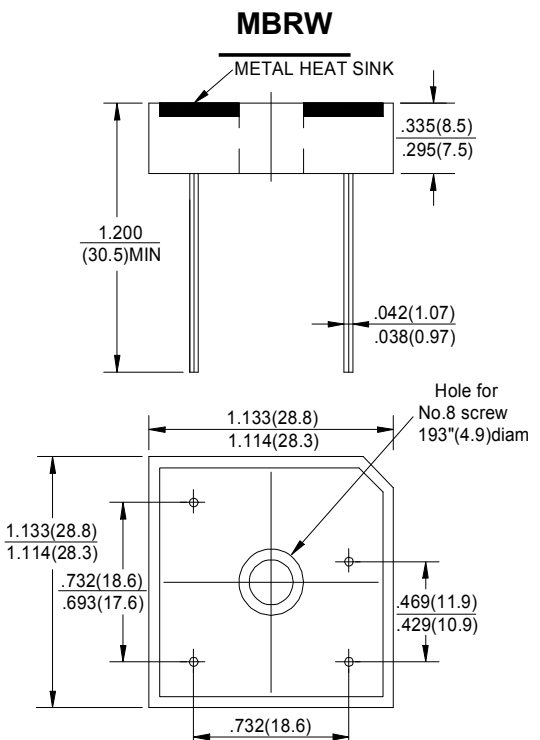


<b>SILICON BRIDGE RECTIFIERS</b>	<p>REVERSE VOLTAGE - <b>50 to 1000</b>Volts          FORWARD CURRENT - <b>10/15/25/35/50</b> Amperes</p>
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>● Surge overload -240~500 amperes peak</li> <li>● Low forward voltage drop</li> <li>● Mounting position: 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	MODEL								UNIT		
		MBR-W	MBR-W	MBR-W	MBR-W	MBR-W	MBR-W	MBR-W	MBR-W			
		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				
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>c</sub> =55°C	I <sub>(AV)</sub>	10		15		25		35		50	A	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>	MBR 10W	240	MBR 15W	300	MBR 25W	400	MBR 35W	400	MBR 50W	500	A
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								μA		
Operating Temperature Rang	T <sub>J</sub>	-55 to +125								°C		
Storage Temperature Rang	T <sub>STG</sub>	-55 to +125								°C		

# RATING AND CHARACTERISTIC CURVES

## MBR10/15/25/35/50A W SERIES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

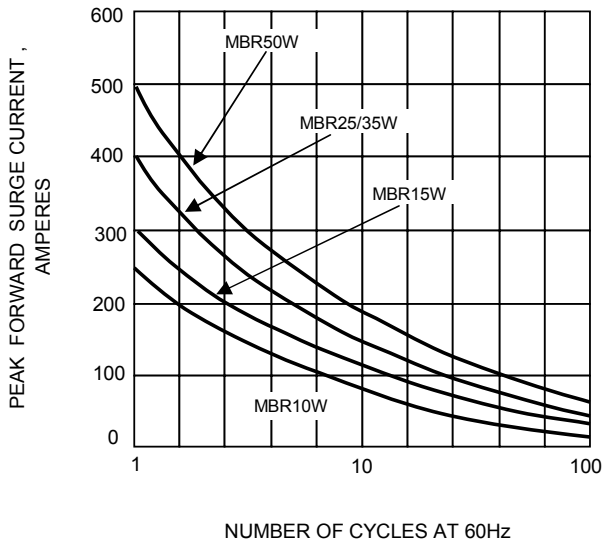


FIG. 2 – DERATING CURVE OUTPUT RECTIFIED CURRENT

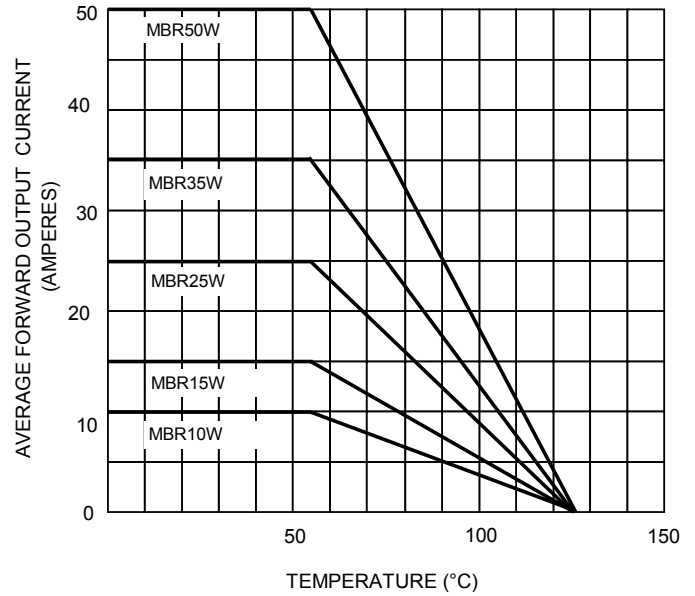


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

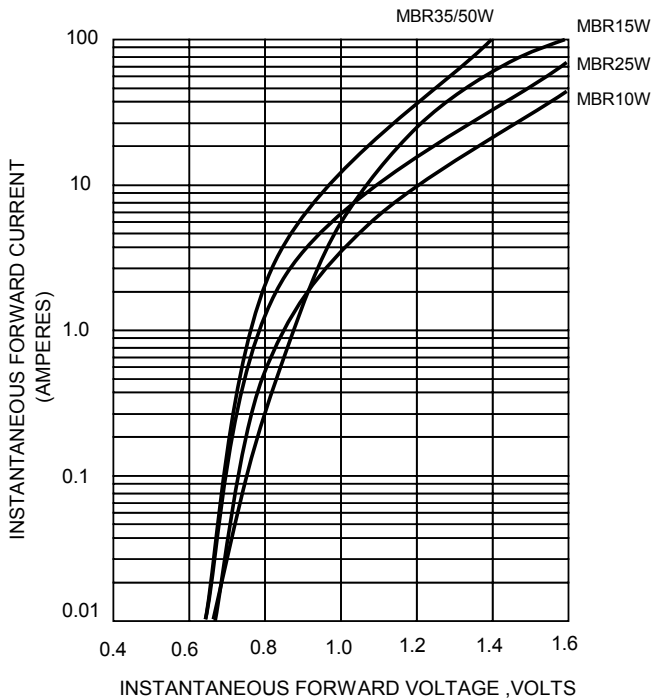


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

