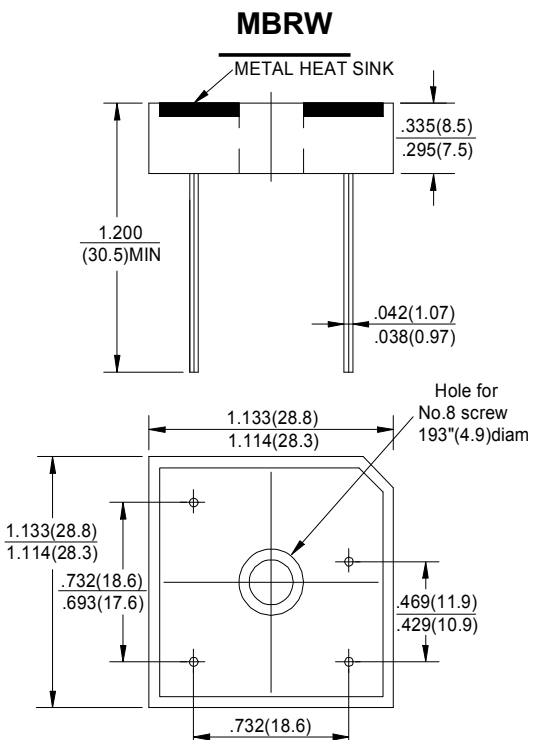


<b>SILICON BRIDGE RECTIFIERS</b>	<b>REVERSE VOLTAGE - 50 to 1000Volts</b> <b>FORWARD CURRENT - 10/15/25/35/50 Amperes</b>
<b>FEATURES</b> <ul style="list-style-type: none"> <li>● Surge overload -240~500 amperes peak</li> <li>● Low forward voltage drop</li> <li>● Mounting position: Any</li> <li>● Electrically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

## 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		
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>	240	300	400	400	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

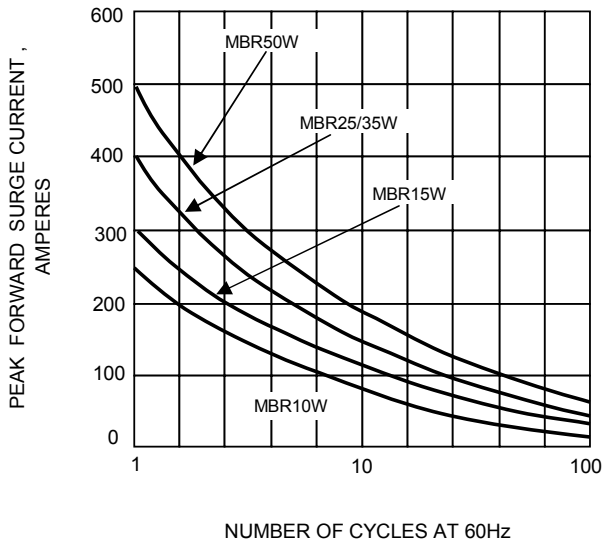


FIG. 2 – DERATING CURVE OUTPUT RECTIFIED CURRENT

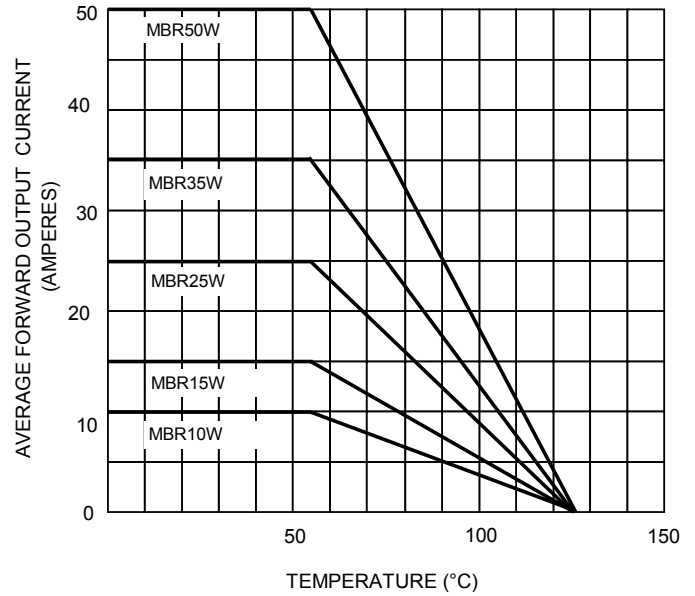


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

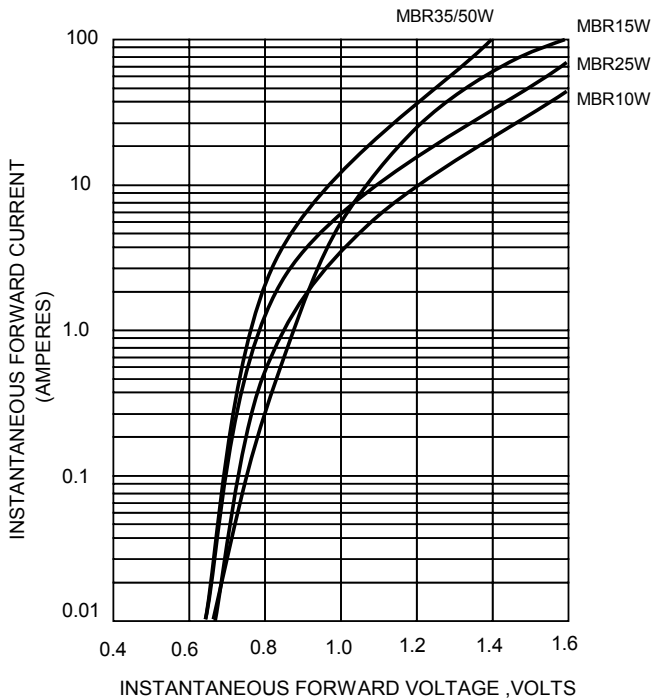


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

