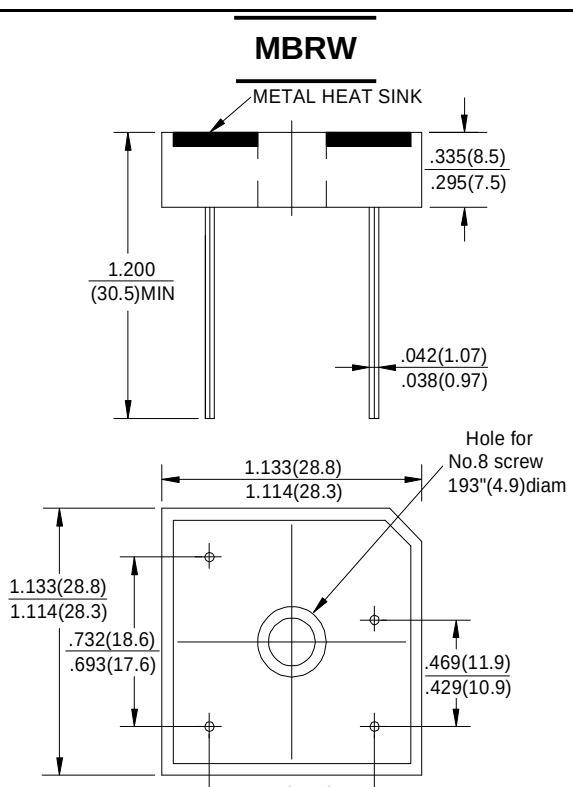


MBR10/15/25/35/50A W SERIES

SILICON BRIDGE RECTIFIERS		REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 10/15/25/35/50 Amperes
FEATURES ● Surge overload -240~500 amperes peak ● Low forward voltage drop ● Mounting position: Any ● Electrically isolated base -2000 Volts ● Materials used carries U/L recognition		 Dimensions in inches and (millimeters)

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 10005 15005 25005 35005 50005								UNIT
		MBR-W	1001	MBR-W	1502	MBR-W	2504	MBR-W	3506	
		1008	1010	1508	1510	2508	2510	3508	3510	
		1008	1010	1508	1510	2508	2510	3508	3510	
		1008	1010	1508	1510	2508	2510	3508	3510	
		1008	1010	1508	1510	2508	2510	3508	3510	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000		V
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	140	280	420	560	700		V
Maximum Average Forward Rectified Output Current at @T _c =55°C	I _(AV)	10	15	25	35	50				A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I _{FSM}	240	300	400	400	500				A
Maximum Forward Voltage Drop Per Element at 5.0/7.5/12.5/17./25.0 Peak	V _F	1.1								V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element @T _J =25°C	I _R	10.0								μA
Operating Temperature Range	T _J	-55 to +150								°C
Storage Temperature Range	T _{STG}	-55 to +150								°C

RATING AND CHARACTERISTIC CURVES
MBR10/15/25/35/50A W SERIES



FIG.1-MAXIMUM FORWARD SURGE CURRENT

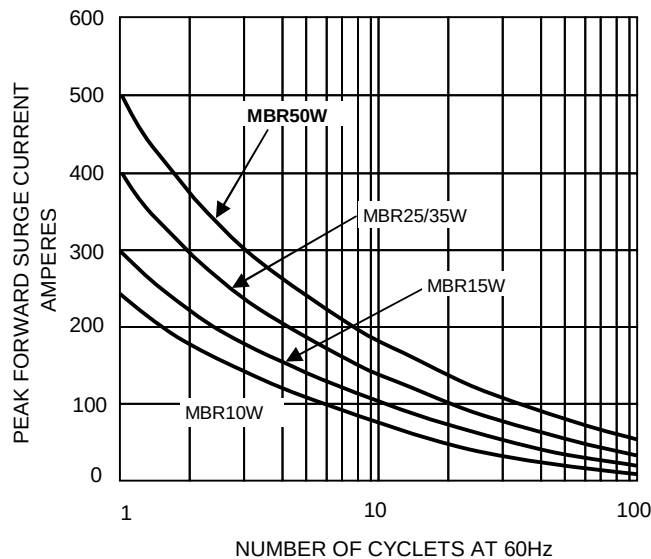


FIG. 2 – DERATING CURVE OUTPUT RECTIFIED CURRENT

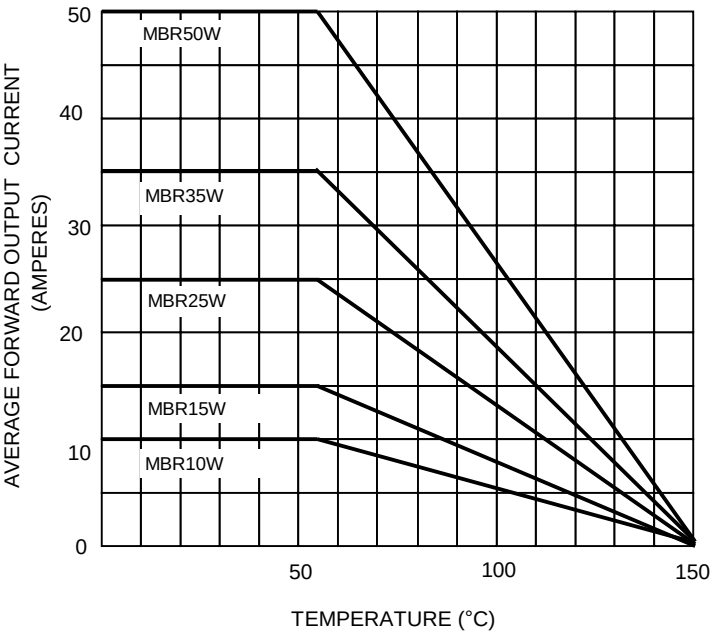


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

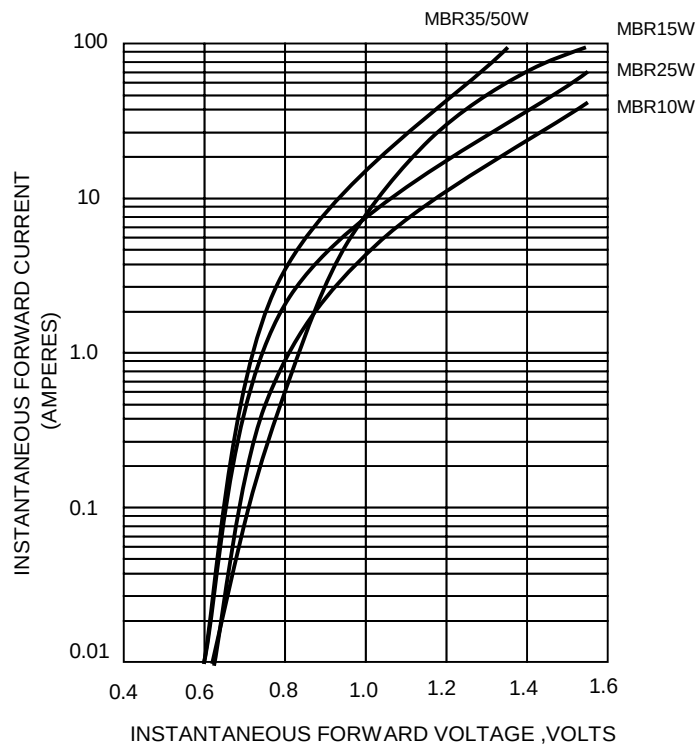


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

