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

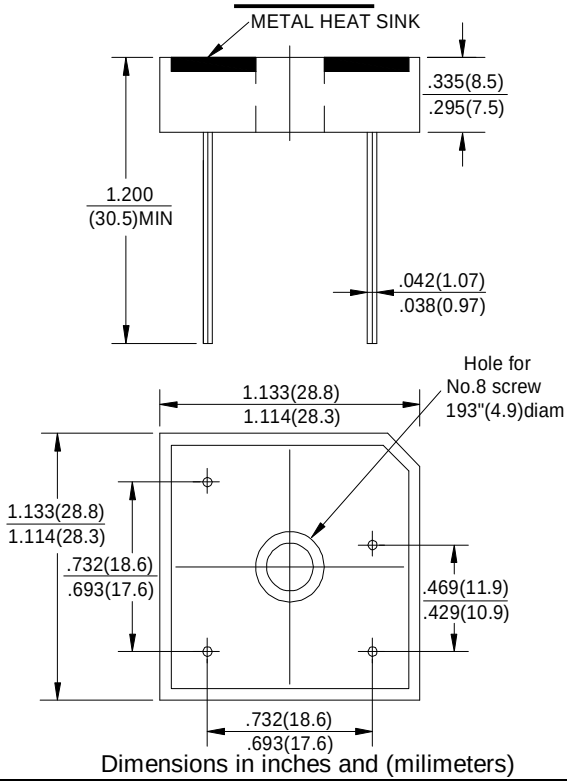
SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE - **50** to **1000**Volts
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

MBRW



Dimensions in inches and (milimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Resistive or inductive load 60Hz.

For capacitive load current by 20%

CHARACTERISTICS	SYMBOL	MBR-W 10005	MBR-W 1001	MBR-W 1002	MBR-W 1004	MBR-W 1006	MBR-W 1008	MBR-W 1010	UNIT
		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_{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 @Tc=55℃	$I_{(AV)}$	MBR 10W	10	MBR 15W	15	MBR 25W	25	MBR 35W	35	MBR 50W	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℃	I_R	10.0										μA
Operating Temperature Range	T_J	-55 to +150										℃
Storage Temperature Range	T_{STG}	-55 to +150										℃

REV. 1, 30-Dec-2011

FIG.1-MAXIMUM FORWARD SURGE CURRENT

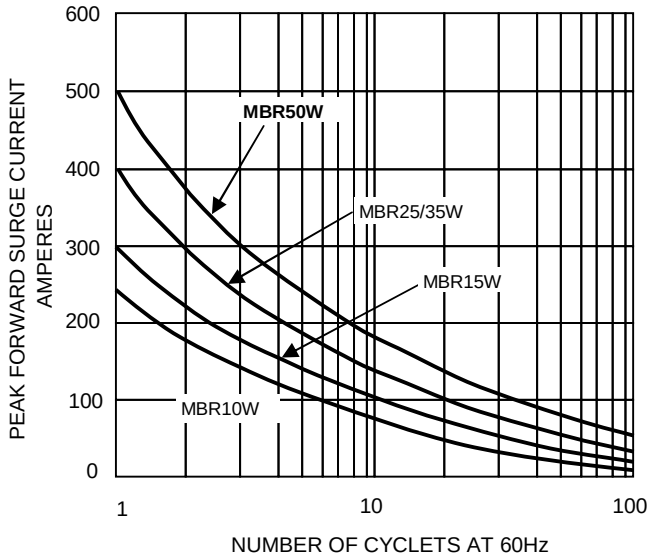


FIG. 2 – DERATING CURVE OUTPUT RECTIFIED CURRENT

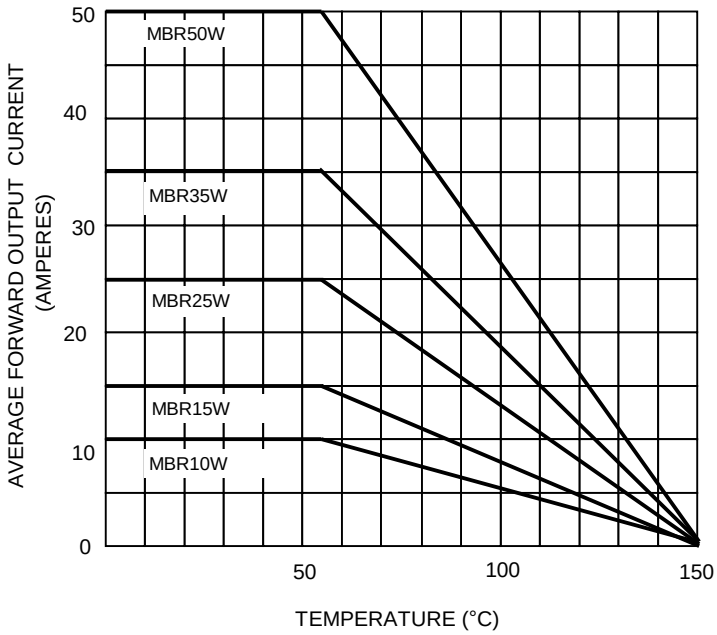


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

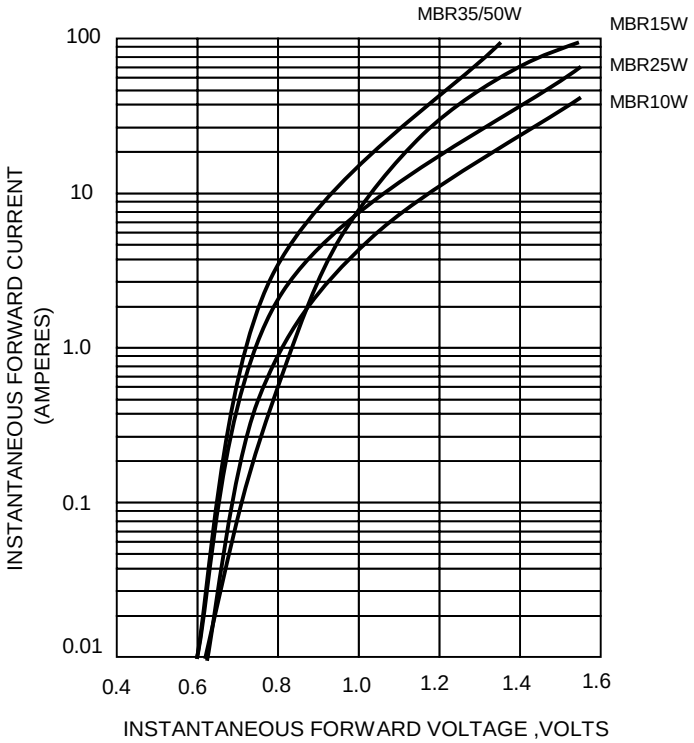


FIG.4 – TYPICAL REVERSE CHARACTERISTICS