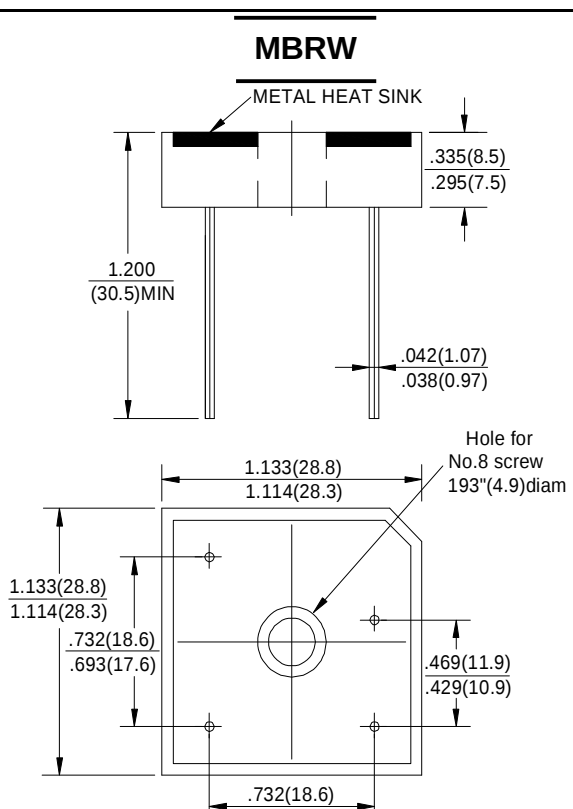


MBR10/15/25/35/50A W SERIES

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								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 _{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)	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°C	I _R	10.0										μA				
Operating Temperature Range	T _J	-55 to +150										°C				
Storage Temperature Range	T _{STG}	-55 to +150										°C				

FIG.1-MAXIMUM FORWARD SURGE CURRENT

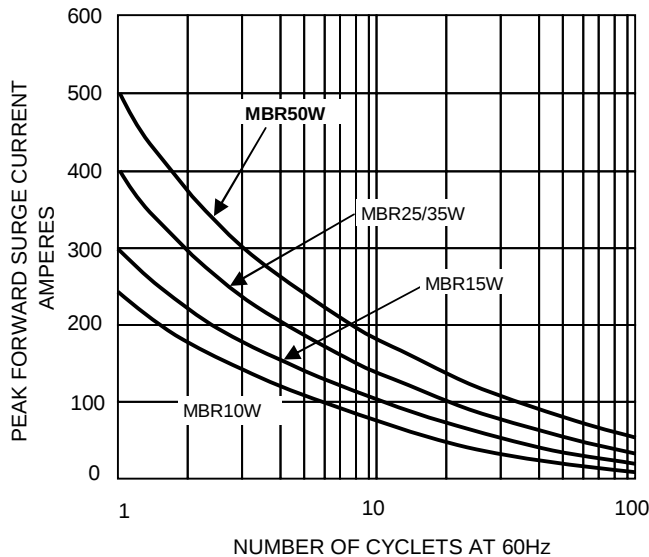


FIG. 2 – DERATING CURVE OUTPUT RECTIFIED CURRENT

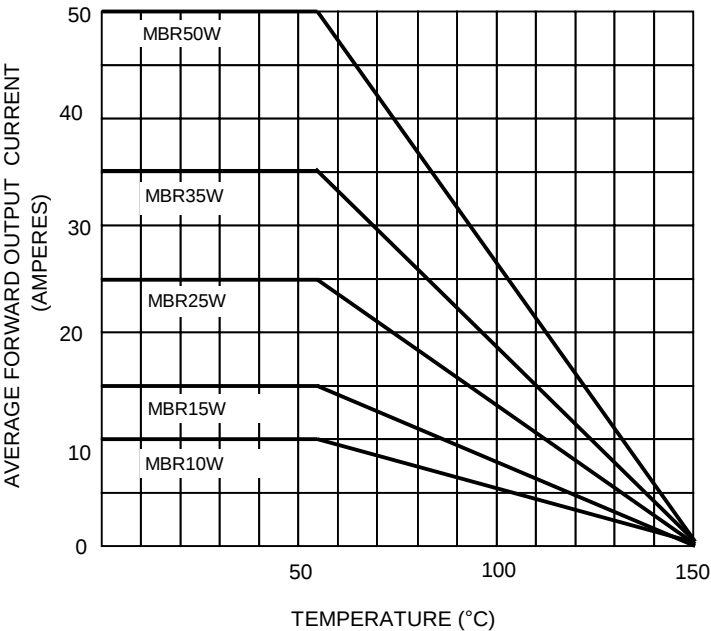


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

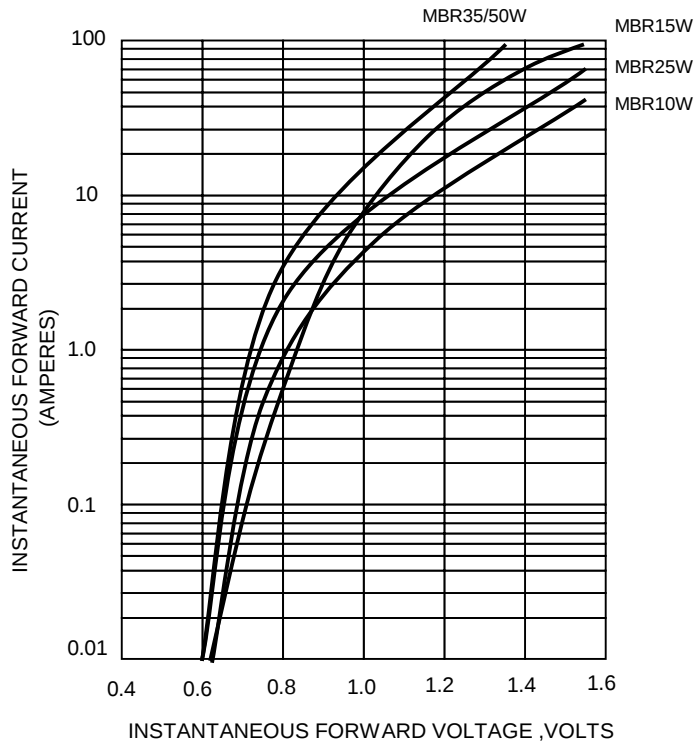


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

