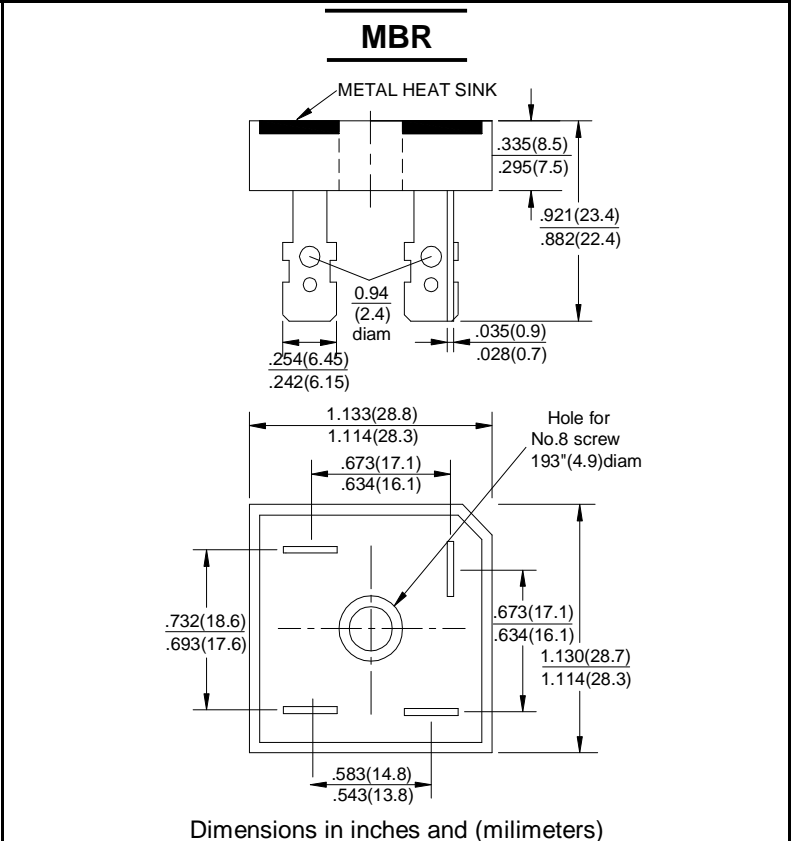


<b>SILICON BRIDGE RECTIFIERS</b>	<b>REVERSE VOLTAGE - 50 to 1000Volts</b> <b>FORWARD CURRENT - 10/15/25/35/50 Amperes</b>
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**FEATURES**

- Surge overload -240~500 amperes peak
- Low forward voltage drop
- Mounting position: Any
- Electrically isolated base -2000 Volts
- Solderable 0.25" FAST ON terminals
- Materials used carries U/L recognition



**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	MBR	MBR	MBR	MBR	MBR	MBR	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 <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 @T <sub>c</sub> =55°C	I <sub>(AV)</sub>	MBR 10	10	MBR 15	15	MBR 25	25	MBR 35	35	MBR 50	50	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>	10	240	15	300	25	400	35	400	50	500	A
Maximum Forward Voltage Drop Per Element at 5.0/7.5/12.5/17.5/25.0 Peak	V <sub>F</sub>	1.1										V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element @T <sub>J</sub> =25°C	I <sub>R</sub>	10.0										μA
Operating Temperature Range	T <sub>J</sub>	-55 to +150										°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150										°C

# RATING AND CHARACTERISTIC CURVES

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

FIG.1-MAXIMUM FORWARD SURGE CURRENT

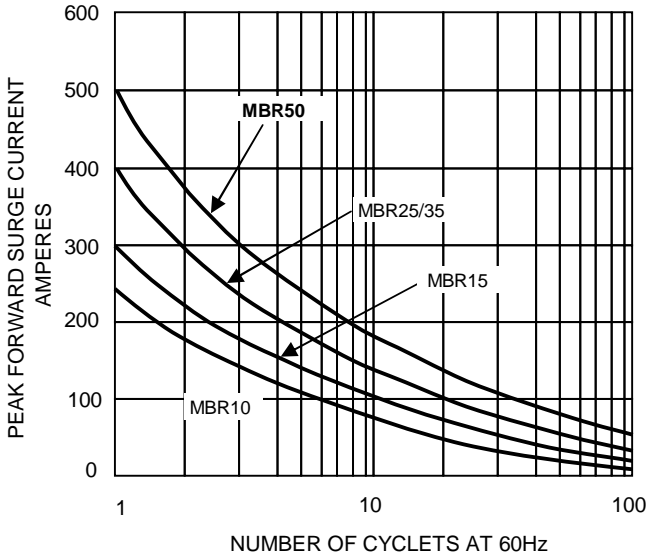


FIG.2- DERATING CURVE  
OUTPUT RECTIFIED CURRENT

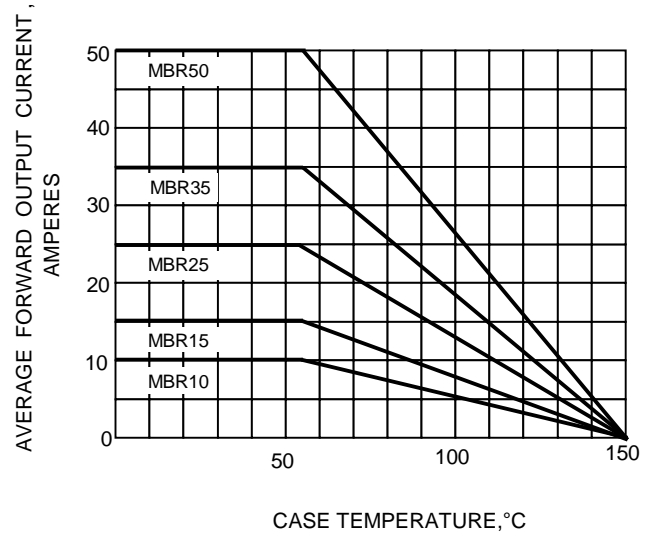


FIG.4-TYPICAL FORWARD CHARACTERISTICS

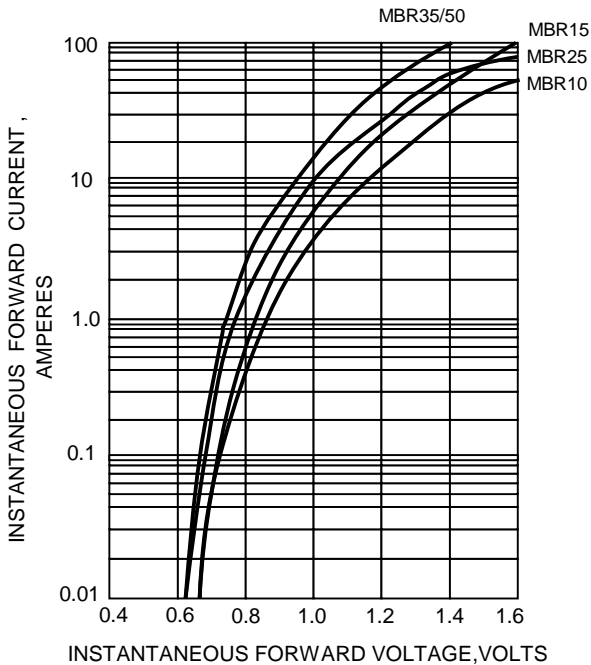


FIG.5-TYPICAL REVERSE CHARACTERISTICS

