MBR25005 THRU MBR2510

Silicon Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 25 Amperes

Features

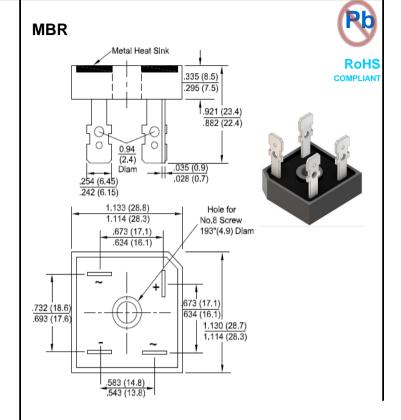
- Low forward voltage drop
- Electrically isolated base -2000 Volts
- High surge forward current capability
- Materials used carries U/L recognition

Mechanical Data

- Polarity: Symbol Marked on body
- Mounting position: Any

Applications

 General purpose use in AC/DC bridge full wave rectification, for power supply, industrial automation applications, etc.



Package Outline Dimensions in Inches (Millimeters)

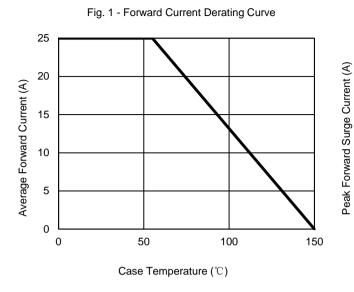
Maximum Ratings and Electrical Characteristics

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Symbol	MBR	MBR	MBR	MBR	MBR	MBR	MBR	Unit
Symbol	25005	2501	2502	2504	2506	2508	2510	
VRRM	50	100	200	400	600	800	1000	V
VRMS	35	70	140	280	420	560	700	V
I(AV)	25							Α
1504 400							Α	
IFSW	400							A
l ² t	664						A ² s	
VF	1.1						V	
lr 10							μА	
								TJ
Tstg	-55 to +150							$^{\circ}$
	VRMS I(AV) IFSM I ² t VF IR	Symbol 25005 VRRM 50 VRMS 35 I(AV) IFSM I ² t VF IR TJ	Symbol 25005 2501	Symbol 25005 2501 2502	Symbol 25005 2501 2502 2504 VRRM 50 100 200 400 VRMS 35 70 140 280 I(AV) 25 IFSM 400 I²t 664 VF 1.1 IR 10 TJ -55 to +15	Symbol 25005 2501 2502 2504 2506 VRRM 50 100 200 400 600 VRMS 35 70 140 280 420 I(AV) 25 IFSM 400 I²t 664 VF 1.1 IR 10 TJ -55 to +150	Symbol 25005 2501 2502 2504 2506 2508 VRRM 50 100 200 400 600 800 VRMS 35 70 140 280 420 560 I(AV) 25 IFSM 400 I²t 664 VF 1.1 IR 10 TJ -55 to +150	Symbol 25005 2501 2502 2504 2506 2508 2510 VRRM 50 100 200 400 600 800 1000 VRMS 35 70 140 280 420 560 700 I(AV) 25 IFSM 400 I²t 664 VF 1.1 IR 10 TJ -55 to +150





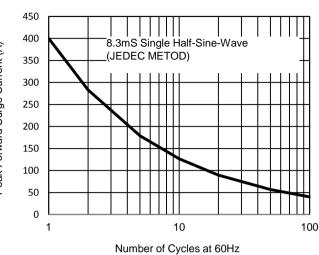
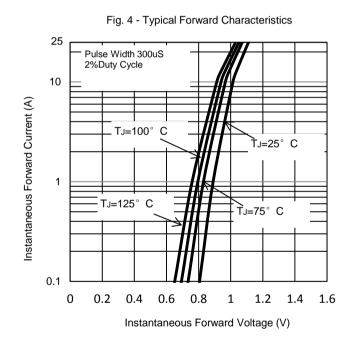


Fig. 2 - Maximum Non-Repetitive Surge Current

Fig. 3 - Typical Reverse Characteristics 1000 Instantaneous Reverse Current (uA) TJ=125° 100 TJ=100° C 10 T_J=75° C 1 С TJ=25° 0.1 20 40 60 80 100 Percent of Rated Peak Reverse Voltage (%)





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