

MB2505 THRU **MB2510**

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 25 Amperes

FEATURES

- * Superior thermal desing
- * 300 amperes surge rating
- * 1/4" universal faston terminal
- * Hole thru for #8 screw

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-0
- * UL listed the recongnized component director, file #94233

DISCONTINUED-

"This series is replaced by the MP25 series that meets to the same fit and function parameters.

The MP25 series is preferred for PCB assembly."



Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.







MB-25W

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	MB2505	MB251	MB252	MB254	MB256	MB258	MB2510	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _C = 55°C	Io	25.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	300							Amps
Typical Thermal Resistance (Note 2)	R ₀ JC	4							- °C/W
	$R_{\theta JA}$	16							
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150							°C

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

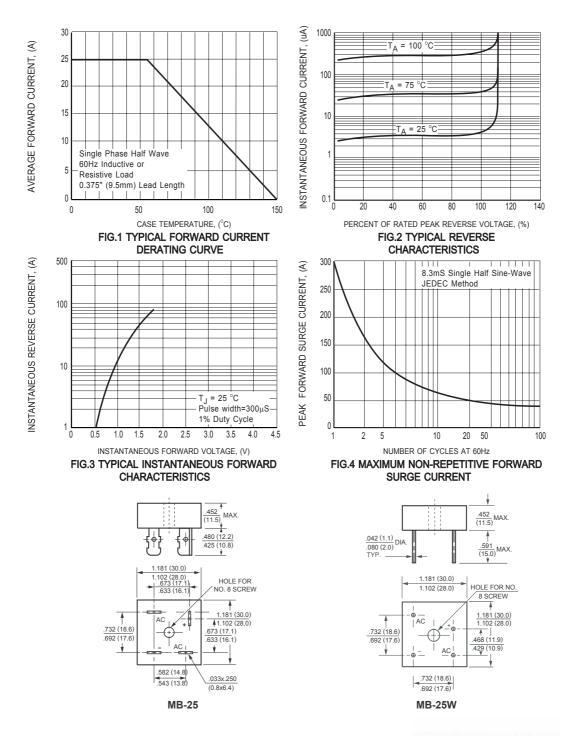
CHARACTERISTICS		SYMBOL	MB2505	MB251	MB252	MB254	MB256	MB258	MB2510	UNITS
Maximum Instantaneous Forward Voltage at 12.5ADC		V _F	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _A = 25°C	· IR	5.0						uAmps	
	@T _A = 100°C		500							

NOTES: 1. Suffix "W" for wire type.

- 2. Typical Thermal Resistance: Heat-sink case mounted.
- 3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2007-5

RATING AND CHARACTERISTICS CURVES (MB2505 THRU MB2510)





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