20 STERN AVE. SPRINGFIELD, NEW JERSEY 07081 U.S.A. TELEPHONE: (973) 376-2922

(212) 227-6005

FAX: (973) 376-8960

MR2500 - MR2512

PRV: 50 - 1200 Volts

lo: 25 Amperes

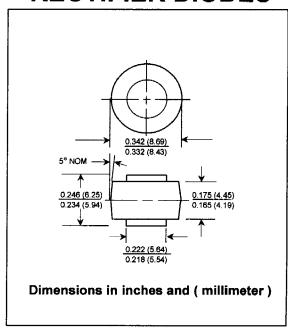
FEATURES:

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop

MECHANICAL DATA:

- * Case: Molded plastic
- * Epoxy : UL94V-O rate flame retardant* Terminals : Terminal are readily solderable
- * Polarity : Cathode polarity band
- * Mounting position : Any* Weight : 1.624 grams

AUTOMOTIVE RECTIFIER DIODES



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	MR2500	MR2501	MR2502	MR2504	MR2506	MR2510	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	1000	Volts
Non-Repetitive Peak Reverse Voltage (Halfwave, single phase, 60 Hz peak)	VRSM	60	120	240	480	720	1200	Volts
Average Rectified Forward Current (Single phase, resistive load, 60 Hz, T _C = 150°C)	lo	25					Amps	
Non-Repetitive Peak Surge Current (Surge applied at rated load conditions, halfwave, single phase, 60 Hz)	IFSM	400 (for 1 cycle)					Amps	
Operating and Storage Junction Temperature Range	T _J , T _{stg}	- 65 to +175				°C		

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Thermal Resistance, Junction to Case (Single Side Cooled)	R _θ ус	1.0	°C/W

ELECTRICAL CHARACTERISTICS

Characteristics and Conditions	Symbol	Max	Unit
Maximum Instantaneous Forward Voltage (i _F = 78.5 Amps, T _C = 25°C)	٧F	1.18	Volts
Maximum Reverse Current (rated dc voltage) T _C = 25°C T _C = 100°C	IR	100 500	μА

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