



Certificate Number: Q14561

Certificate Number: E17276

# MR2500L - MR2512L

# AUTOMOTIVE RECTIFIER DIODES

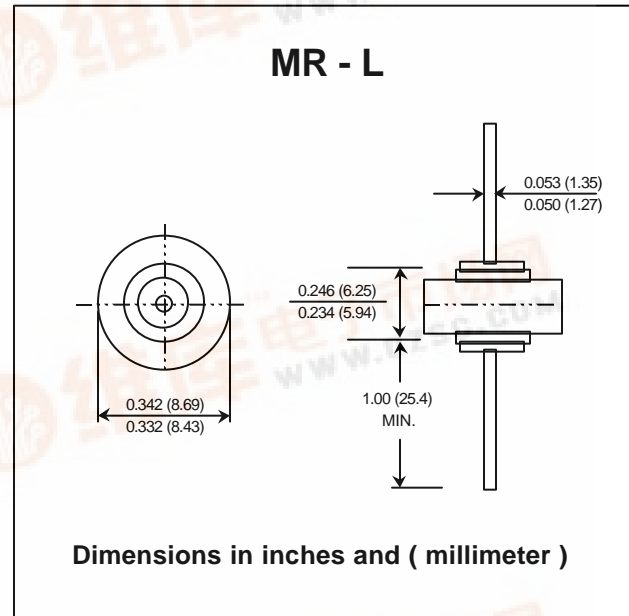
**PRV : 50 - 1200 Volts**  
**Io : 25 Amperes**

### 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
- \* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Cathode polarity band
- \* Mounting position : Any
- \* Weight : 2.69 grams



### 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%.

RATING	SYMBOL	MR	MR	MR	MR	MR	MR	MR	MR	UNIT
		2500L	2501L	2502L	2504L	2506L	2508L	2510L	2512L	
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	1200	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	840	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	1200	Volts
Average Rectified Forward Current T <sub>c</sub> = 150°C	I <sub>F(AV)</sub>	25								Amps.
Peak Forward Surge Current Single half sine wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	400								Amps.
Maximum Forward Voltage at I <sub>F</sub> = 25 Amps.	V <sub>F</sub>	1.0								Volts
Maximum DC Reverse Current Ta = 25 °C at rated DC Blocking Voltage Ta = 100 °C	I <sub>R</sub>	5.0								µA
	I <sub>R(H)</sub>	1.0								mA
Thermal Resistance (Note 1)	R <sub>θJC</sub>	0.8								°C/W
Junction Temperature Range	T <sub>J</sub>	- 65 to + 175								°C
Storage Temperature Range	T <sub>STG</sub>	- 65 to + 175								°C

Note : (1) Thermal resistance from junction to case. Single side cooled.



## RATING AND CHARACTERISTIC CURVES ( MR2500L - MR2512L )

