



MR3500L - MR3512L

AUTOMOTIVE RECTIFIER DIODES

PRV : 50 - 1200 Volts

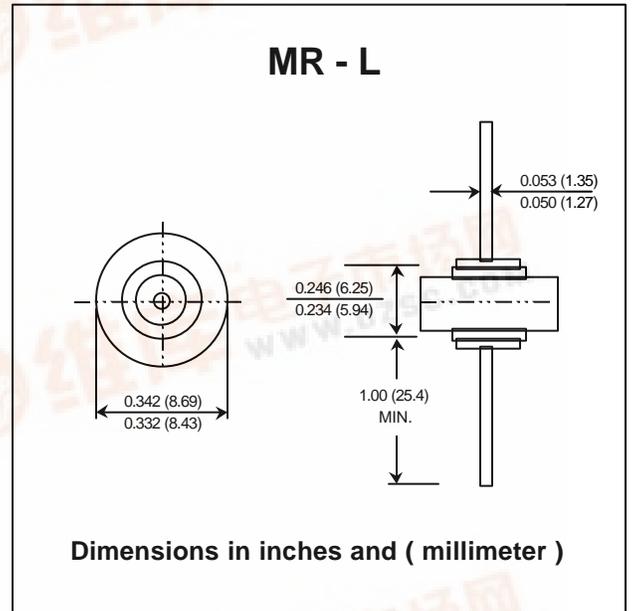
Io : 35 Amperes

FEATURES :

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

MECHANICAL DATA :

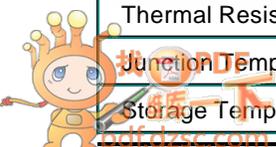
- * Case : Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Cathode polarity band
- * Mounting position : Any
- * Weight : 2.69 grams



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
		3500L	3501L	3502L	3504L	3506L	3508L	3510L	3512L	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	1200	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	840	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	1200	Volts
Average Rectified Forward Current T _c = 150°C	I _{F(AV)}	35								Amps.
Peak Forward Surge Current Single half sine wave superimposed on rated load (JEDEC Method)	I _{FSM}	400								Amps.
Maximum Forward Voltage at I _F = 35 Amps.	V _F	1.1								Volts
Maximum DC Reverse Current Ta = 25 °C at rated DC Blocking Voltage Ta = 100 °C	I _R	5.0								µA
	I _{R(H)}	1.0								mA
Thermal Resistance (Note 1)	R _{θJC}	1.0								°C/W
Function Temperature Range	T _J	- 65 to + 175								°C
Storage Temperature Range	T _{STG}	- 65 to + 175								°C





RATING AND CHARACTERISTIC CURVES (MR3500L - MR3512L)

