

AR3500L - AR3512L

PRV : 50 - 1200 Volts
I_o : 35 Amperes

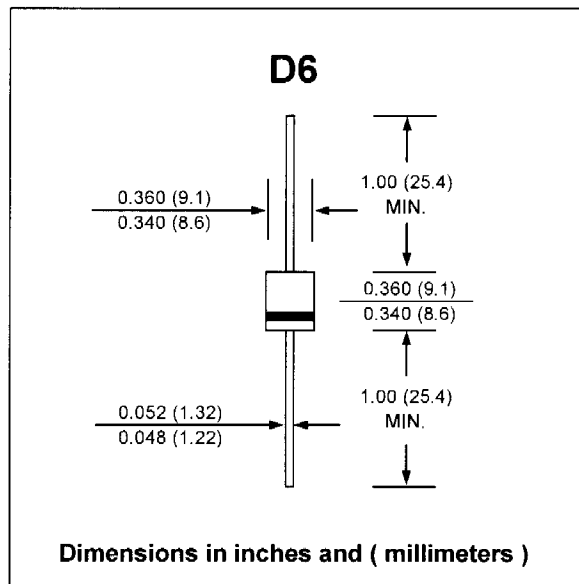
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 2.049 grams

AUTOMOTIVE RECTIFIER DIODES



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

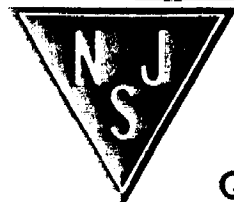
Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

RATING	SYMBOL	AR 3500L	AR 3501L	AR 3502L	AR 3504L	AR 3506L	AR 3508L	AR 3510L	AR 3512L	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	1200	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	840	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	1200	V
Average Rectified Forward Current T _c = 150 °C	I _{F(AV)}	35								A
Peak Forward Surge Current Single half sine wave superimposed on rated load (JEDEC Method)	I _{FSM}	400								A
Maximum Forward Voltage at I _F = 35 Amps.	V _F	1.1								V
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
Junction Temperature Range	T _J	- 65 to + 175								°C
Storage Temperature Range	T _{STG}	- 65 to + 175								°C

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

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RATING AND CHARACTERISTIC CURVES (AR3500L - AR3512L)

