New Jersey Semi-Conductor Products, Inc.

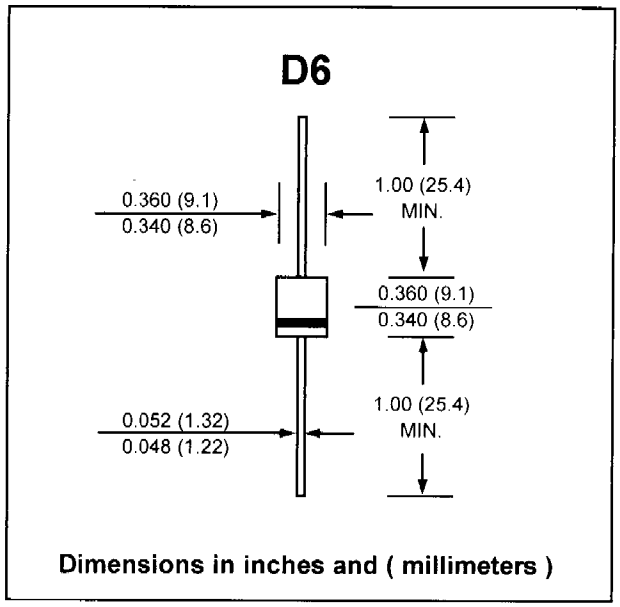
20 STERN AVE.
SPRINGFIELD, NEW JERSEY 07081
U.S.A.

TELEPHONE: (973) 376-2922
(212) 227-6005
FAX: (973) 376-8960

MR2500L - MR2512L

AUTOMOTIVE RECTIFIER DIODES

PRV : 50 - 1200 Volts
Io : 25 Amperes



Dimensions in inches and (millimeters)

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

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 2500L	MR 2501L	MR 2502L	MR 2504L	MR 2506L	MR 2508L	MR 2510L	MR 2512L	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
Maximum Average Rectified Forward Current Tc = 150°C	$I_{F(AV)}$	25								A
Maximum Peak Forward Surge Current Single half sine wave superimposed on rated load (JEDEC Method)	I_{FSM}	400								A
Maximum Forward Voltage at I_F = 25 A	V_F	1.0								V
Maximum DC Reverse Current Ta = 25 °C	I_R	5.0								µA
at rated DC Blocking Voltage Ta = 100 °C	$I_{R(H)}$	1.0								mA
Thermal Resistance (Note 1)	RθJC	0.8								°C/W
Junction Temperature Range	TJ	- 65 to + 175								°C
Storage Temperature Range	T_{STG}	- 65 to + 175								°C

NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Quality Semi-Conductors

Download from alldatasheet.com