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

AR3500 - AR3510

PRV: 50 - 1000 Volts Io: 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* Terminals : Terminal are readily solderable

* Polarity : Cathode polarity band

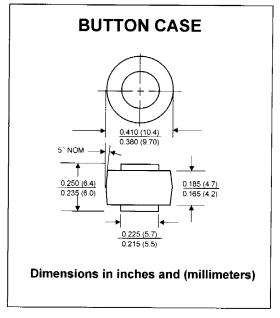
* Mounting position : Any* Weight : 1.80 grams

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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 3500	AR 3501	AR 3502	AR 3504	AR 3506	AR 3508	AR 3510	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Average Rectified Forward Current Tc = 150°C	IF(AV)	35							- A
Peak Forward Surge Current Single half sine wave superimposed on rated load (JEDEC Method)	Іғѕм	400							A
Maximum Forward Voltage at I _F = 35 Amps.	VF	1.1						V	
Maximum DC Reverse Current Ta = 25 °C	lr lr	5.0							μΑ
at rated DC Blocking Voltage Ta = 100 °C	IR(H)	1.0							mA
Thermal Resistance (Note 1)	RθJC	1.0							°C/W
Junction Temperature Range	TJ	- 65 to + 175							°C
Storage Temperature Range	Тѕтс	- 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

RATING AND CHARACTERISTIC CURVES (AR3500 - AR3510)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

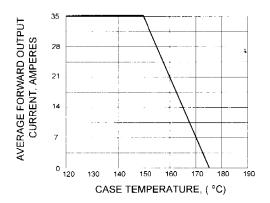


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

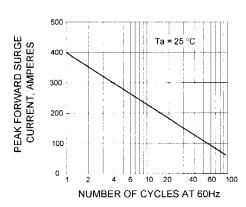


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

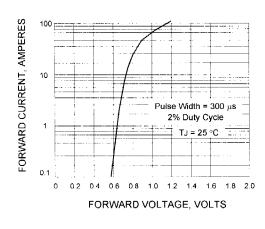


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

