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AR35L/ARS35L

**Features**

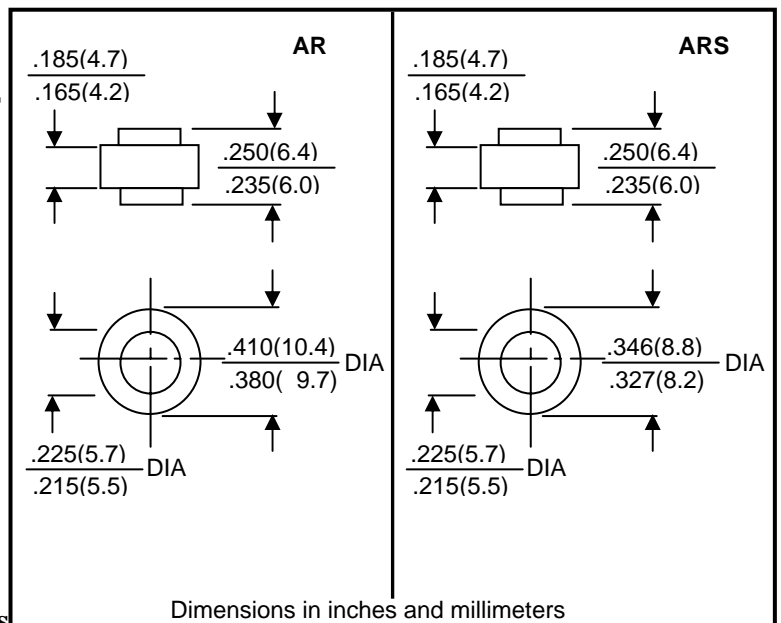
- High power capability
- Economical
- Avalanche voltage: 20 to 24 volts

**AVALANCHE AUTOMOTIVE  
DIODE**

**AVALANCHE VOLTAGE  
20 TO 24 VOLTS  
CURRENT 35AMPS**

**Mechanical Data**

- Case: transfer molded plastic
- Epoxy: UL94-0 rate flame retardant
- Technology vacuum soldered
- Polarity: colour ring denotes cathode
- Lead: Plated slug,  
Solderable per MIL-STD-202E method 208C
- Weight: AR 1.80 grams, ARS 1.60 grams



Dimensions in inches and millimeters

**Maximum Ratings and Electrical Characteristics**

- Rating at 25°C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

Parameters	Symbols	Min.	Nominal	Max.	Units
Peak repetitive reverse voltage	$V_{RRM}$	17			Volts
Working peak reverse voltage	$V_{RWM}$	17			
DC blocking voltage	$V_{DC}$	17			
Average rectified forward current at $T_c=125^\circ C$	$I_o$	35			Amps
Repetitive peak reverse surge current $T_c=10msec$ duty cycle <1%	$I_{RSM}$	35			Amps
Breakdown voltage ( $V_{BR}$ @ $I_R=100mA, T_c=25^\circ C$ )	$V_{BR1}$	20	22	24	Volts
	$V_{BR2}$	32			
$I_R=90Amps, T_c=150^\circ C, PW=80\mu sec$					
Forward voltage drop ( $V_{FWB}$ ) @ $I_F=100Amps < 300sec$	$V_F$	0.98	1.03	1.08	Volts
Peak forward surge current	$I_{FSM}$	500			Amps
Reverse leakage ( $V_R=17V_{DC}$ ) $T_c=25^\circ C$	$I_R$	0.2	1.0	2.0	$\mu A$
Operating and storage junction temperature range	$T_J, T_{STG}$	-65 to +175			$^\circ C$

Notes: 1.Enough heatsink must be considered in application.

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