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AR50M/ARS50M

Features

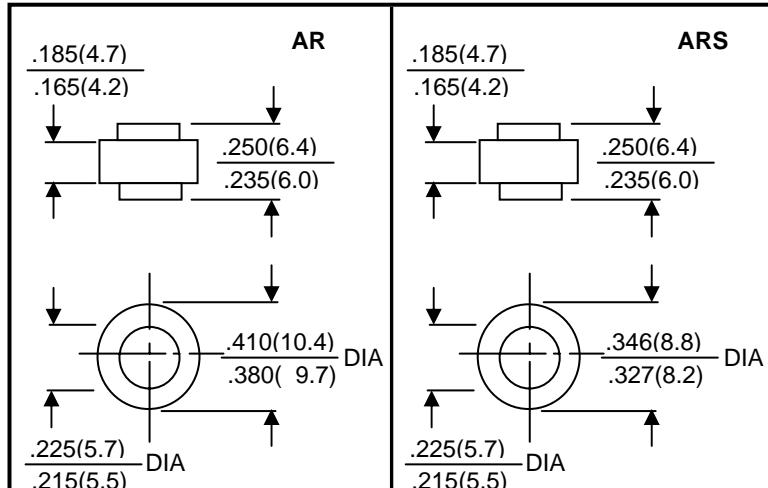
- High power capability
- Economical
- Avalanche voltage: 37 to 41 volts

AVALANCHE AUTOMOTIVE DIODE

**AVALANCHE VOLTAGE
37 TO 41 VOLTS
CURRENT 50AMPS**

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}		28		
Working peak reverse voltage	V _{RWM}		28		Volts
DC blocking voltage	V _{DC}		28		
Average rectified forward current at T _c =125°C	I _o		50		Amps
Repetitive peak reverse surge current T _c =10msec duty cycle <1%	I _{RSM}		50		Amps
Breakdown voltage (V _{BR} @ I _R =100mA, T _c =25°C) I _R =90Amps, T _c =150°C, PW=80usec	V _{BR1} V _{BR2}	37 V _{BR2}	39 54	41	Volts
Forward voltage drop (V _{FWB}) @ I _F =100Amps < 300sec	V _F	0.97	1.00	1.05	Volts
Peak forward surge current	I _{FSM}		600		Amps
Reverse leakage (V _R =17V _{DC}) T _c =25°C	I _R	0.2	1.0	2.0	uA
Operating and storage junction temperature range	T _J , T _{STG}		-65 to +175		°C

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

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