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AR50L/ARS50L

AVALANCHE AUTOMOTIVE DIODE

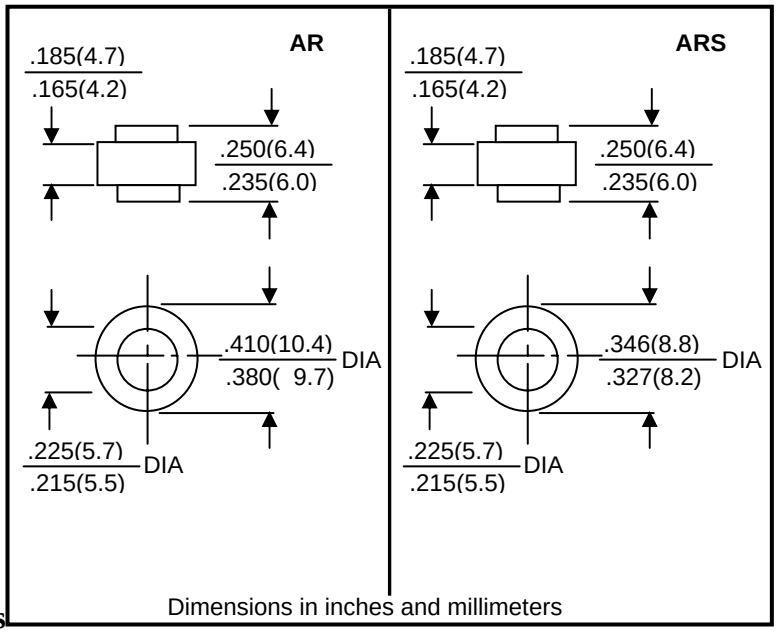
AVALANCHE VOLTAGE
20 TO 24 VOLTS
CURRENT 50AMPS

Features

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

Mechanical Data

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



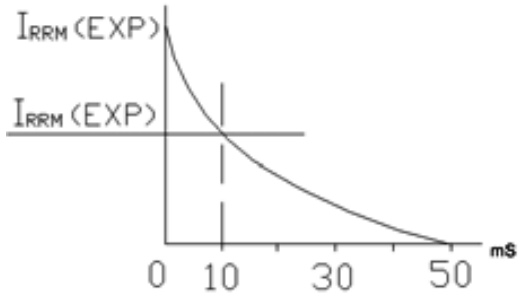
Dimensions in inches and millimeters

Maximum Ratings and Electrical Charactristics

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°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)	V_{BR1}	20	22	24	Volts
I_R=90Amps,Tc=150°C ,PW=80usec	V_{BR2}			32	
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.



Surge current characteristics