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AR50L/ARS50L

Features

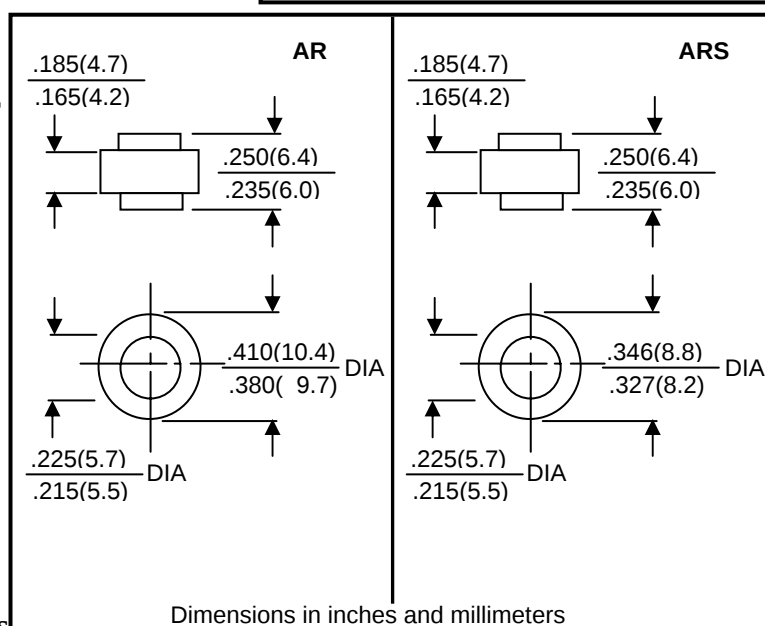
High power capability
Economical
Avalanche voltage: 20 to 24 volts

AVALANCHE AUTOMOTIVE DIODE

AVALANCHE VOLTAGE
20 TO 24 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
Weigh: AR 1.80 grams, ARS 1.60 grams



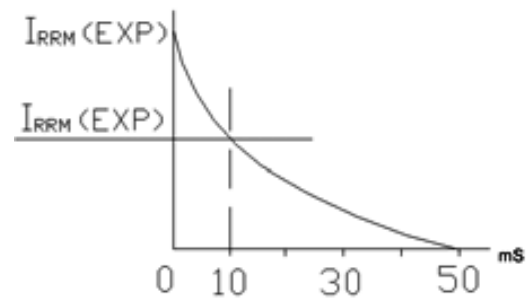
Maximum Ratings and Electrical Characteristics

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 $T_c=125^{\circ}\text{C}$	I_o	50			Amps
Repetitive peak reverse surge current $T_c=10\text{msec}$ duty cycle $<1\%$	I_{RSM}	50			Amps
Breakdown voltage (V_{BR} @ $I_R=100\text{mA}$, $T_c=25^{\circ}\text{C}$)	V_{BR1}	20	22	24	Volts
$I_R=90\text{Amps}$, $T_c=150^{\circ}\text{C}$, $PW=80\mu\text{sec}$	V_{BR2}			32	
Forward voltage drop (V_{FWB}) @ $I_F=100\text{Amps}$ < 300sec	V_F	0.97	1.00	1.05	Volts
Peak forward surge current	I_{FSM}	600			Amps
Reverse leakage ($V_R=17V_{DC}$) $T_c=25^{\circ}\text{C}$	I_R	0.2	1.0	2.0	μA
Operating and storage junction temperature range	T_J, T_{STG}	-65 to +175			$^{\circ}\text{C}$

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

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Surge current characteristics