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AR50Z/ARS50Z

Features

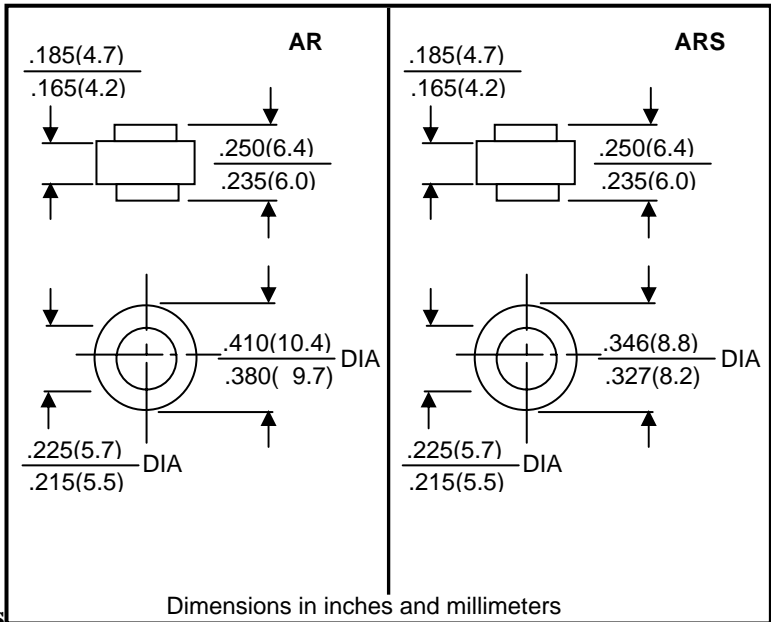
- High power capability
- Economical
- Avalanche voltage: 24 to 32 volts

**AVALANCHE AUTOMOTIVE
DIODE**

**AVALANCHE VOLTAGE
24 TO 32 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



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}	20			Volts
Working peak reverse voltage	V_{RWM}	20			
DC blocking voltage	V_{DC}	20			
Average rectified forward current at $T_c=125^\circ C$	I_o	50			Amps
Repetitive peak reverse surge current $T_c=10msec$ duty cycle <1%	I_{RSM}	50			Amps
Breakdown voltage (V_{BR} @ $I_R=100mA, T_c=25^\circ C$)	V_{BR1}	24	25/27	32	Volts
	V_{BR2}			40	
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 ($V_R=17V_{DC}$) $T_c=25^\circ C$	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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