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AR25Z/ARS25Z

Features

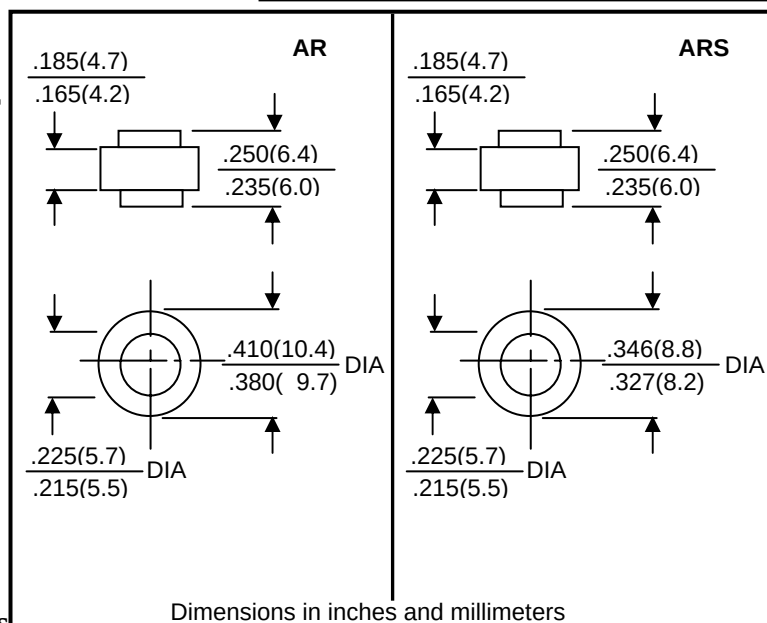
High power capability
Economical
Avalanche voltage: 24 to 32 volts

AVALANCHE AUTOMOTIVE DIODE

**AVALANCHE VOLTAGE
24 TO 32 VOLTS
CURRENT 25AMPS**

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
Weighth: AR 1.80 grams, ARS 1.60 grams



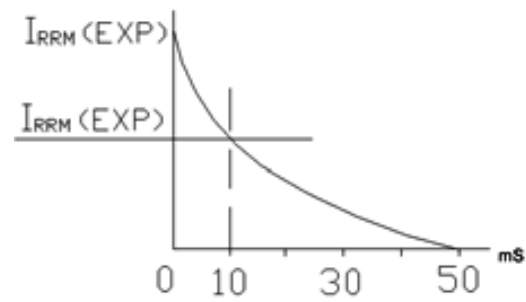
Maximum Ratings and Electrical Characteristics

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°C	I _o	25			Amps
Repetitive peak reverse surge current T _c =10msec duty cycle <1%	I _{RSM}	25			Amps
Breakdown voltage (V _{BR} @ I _R =100mA,T _c =25°C)	V _{BR1}	24	25/27	32	Volts
I _R =90Amps,T _c =150°C ,PW=80usec	V _{BR2}			40	
Forward voltage drop (V _{FWB}) @ I _F =100Amps < 300sec	V _F	0.98	1.04	1.10	Volts
Peak forward surge current	I _{FSM}	400			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.

AR25Z / ARS25Z



Surge current characteristics