

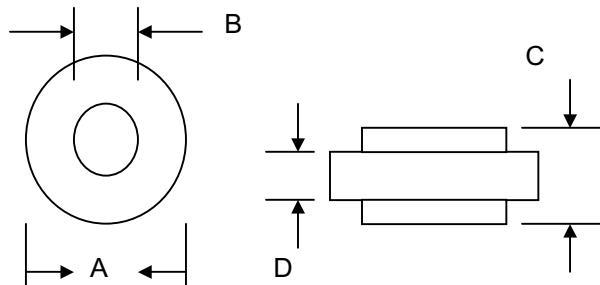
Data Sheet 2502 Rev.—

Features

- Glass Passivated Die Construction
- High Power Capacity
- Avalanche Voltage 24 to 32 Volts
- High Surge Current Capability
- Low Cost Construction Utilizing Void-Free Molded Plastic Technique

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Terminals Solderable per MIL-STD-202, Method 208
- Polarity: Color Ring Denotes Cathode End
- Weight: 1.8 grams (approx.)
- Mounting Position: Any



Dim	AR		ARS	
	Min	Max	Min	Max
A	0.395(10.0)	0.405(10.3)	0.327(8.31)	0.347(8.81)
B	0.218(5.54)	0.222(5.64)	0.218(5.54)	0.222(5.64)
C	0.234(5.94)	0.246(6.25)	0.234(5.94)	0.246(6.25)
D	0.165(4.19)	0.175(4.45)	0.165(4.19)	0.175(4.45)

All Dimensions in inch(mm)

S Suffix Designates ARS Package

No Suffix Designates AR Package

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristic	Symbol	AR/S2540	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	V
Average Rectified Output Current @T _A = 150°C	I _O	40	A
Breakdown Voltage Min. Breakdown Voltage Max. @I _R = 100mA	V _{BR}	24 32	V
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) @T _J = 150°C	I _{FSM}	600	A
Peak Reverse Surge Current	I _{RSR}	150	A
Forward Voltage @I _F = 100A	V _{FM}	1.05	V
Peak Reverse Current at Rated DC Blocking Voltage @T _C = 25°C	I _{RM}	200	nA
Typical Thermal Resistance Junction to Case (Note 1)	R _{θJC}	0.8	K/W
Operating and Storage Temperature Range	T _J , T _{STG}	-50 to +175	°C

Note: 1. Thermal Resistance: Junction to case, single side cooled.