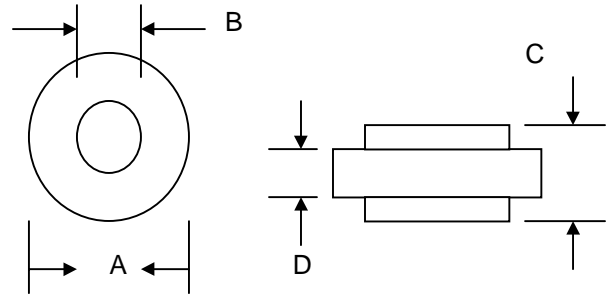


40A GLASS PASSIVATED AVALANCHE BUTTON DIODE

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	10.03	10.29	8.31	8.81
B	5.54	5.64	5.54	5.64
C	5.94	6.25	5.94	6.25
D	4.19	4.45	4.19	4.45

All Dimensions in mm

S Suffix Designates ARS Package
 No Suffix Designates AR Package

Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ 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 @ $T_A = 150^\circ\text{C}$	I_O	40	A
Breakdown Voltage Min. Breakdown Voltage Max.	V_{BR}	24 32	V
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) @ $T_J = 150^\circ\text{C}$	I_{FSM}	600	A
Peak Reverse Surge Current	I_{RSM}	150	A
Forward Voltage @ $I_F = 100\text{A}$	V_{FM}	1.05	V
Peak Reverse Current at Rated DC Blocking Voltage @ $T_C = 25^\circ\text{C}$	I_{RM}	200	nA
Typical Thermal Resistance Junction to Case (Note 1)	$R_{\theta JC}$	0.8	K/W
Operating and Storage Temperature Range	T_J, T_{STG}	-50 to +175	$^\circ\text{C}$

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

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
AR2540	10mm Button	1000 Units/Box
ARS2540	8.6mm Button	1000 Units/Box

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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