

AR/S50A - AR/S50M

50A AUTOMOTIVE BUTTON DIODE

Features

- Diffused Junction
- Low Leakage
- Low Cost
- High Surge Current Capability
- Low Cost Construction Utilizing Void-Free Molded Plastic Technique

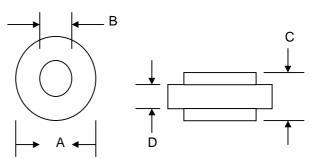
Mechanical Data

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: AnyMarking: Color Band



	AR		ARS			
Dim	Min	Max	Min	Max		
Α	9.70	10.40	8.30	8.90		
В	5.50	5.70	5.50	5.70		
С	6.0	6.40	6.0	6.40		
D	4.2	4.7	4.2	4.7		
All Dimensions in mm						

S Suffix Designates ARS Package No Suffix Designates AR Package

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

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	AR/S 50A	AR/S 50B	AR/S 50D	AR/S 50G	AR/S 50J	AR/S 50K	AR/S 50M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _A = 150°C	lo	50					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) at T _J = 150°C	Ігѕм	500				А			
Forward Voltage @I _F = 50A	VFM	1.2				V			
	lгм	5.0 250					μΑ		
Reverse Recovery Time (Note 1)	trr	3.0					μS		
Typical Junction Capacitance (Note 2)	Cj	300					pF		
Typical Thermal Resistance Junction to Case (Note 3)	R_{θ} JC	1.0				K/W			
Operating and Storage Temperature Range	Тл, Твтв	-50 to +175				°C			
Polarity and Voltage Denotation Color Band		Red	Yellow	Silver	Orange	Green	Blue	Violet	

*Glass passivated forms are available upon request

- Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A
 - 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
 - 3. Thermal Resistance: Junction to case, single side cooled.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
AR50A	10mm Button	1000 Units/Box
ARS50A	8.6mm Button	1000 Units/Box
AR50B	10mm Button	1000 Units/Box
ARS50B	8.6mm Button	1000 Units/Box
AR50D	10mm Button	1000 Units/Box
ARS50D	8.6mm Button	1000 Units/Box
AR50G	10mm Button	1000 Units/Box
ARS50G	8.6mm Button	1000 Units/Box
AR50J	10mm Button	1000 Units/Box
ARS50J	8.6mm Button	1000 Units/Box
AR50K	10mm Button	1000 Units/Box
ARS50K	8.6mm Button	1000 Units/Box
AR50M	10mm Button	1000 Units/Box
ARS50M	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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