

AR/S50AL - AR/S50JL

50A LEADED AUTOMOTIVE BUTTON DIODE

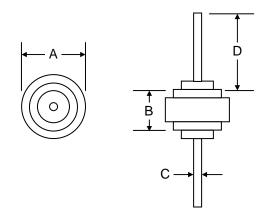


Features

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

Mechanical Data

- Case: ARL or ARSL, Molded Plastic
- Terminals: Plated Terminals Solderable per MIL-STD-202, Method 208
- Polarity: Color Ring Denotes Cathode End
- Weight: 2.0 grams (approx.)
 Mounting Position: Any
- Marking: Type Number
 Load From For Botts / Load
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 3



	ARL		ARSL			
Dim	Min	Max	Min	Max		
Α	9.70	10.40	8.30	8.90		
В	5.50	6.30	5.50	6.30		
С	1.27	1.35	1.27	1.35		
D	25.00	_	25.00	_		
All Dimensions in mm						

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

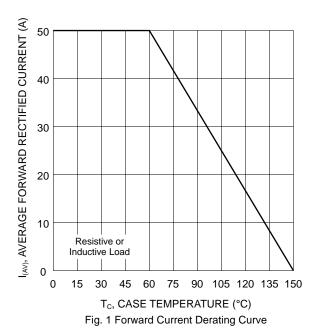
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

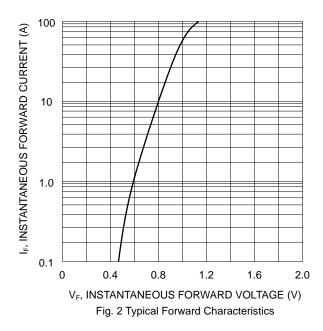
Characteristic	Symbol	AR/S 50AL	AR/S 50BL	AR/S 50DL	AR/S 50GL	AR/S 50JL	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	V
Average Rectified Output Current @T _C = 60°C	lo	50					А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	500				А	
Forward Voltage @I _F = 50A	VFM	1.1					V
	lгм	5.0 100				μА	
Typical Junction Capacitance (Note 2)	Сл	400				pF	
Typical Thermal Resistance (Note 3)	R JC	1.0			°C/W		
Operating and Storage Temperature Range	ТЈ, Тѕтс	-55 to +150				°C	

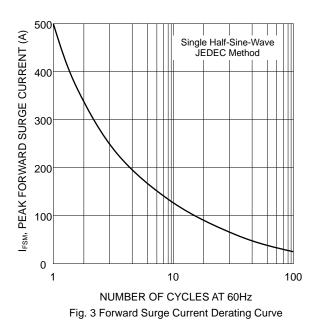
Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$

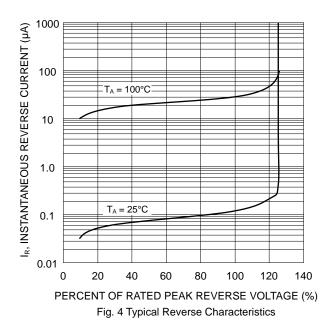
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 3. Thermal Resistance: Junction to case, single side cooled.













ORDERING INFORMATION

Product No. Package Type		Shipping Quantity			
AR50AL	10mm Leaded Button	200 Units/Box			
ARS50AL	8.6mm Leaded Button	200 Units/Box			
AR50BL	10mm Leaded Button	200 Units/Box			
ARS50BL	8.6mm Leaded Button	200 Units/Box			
AR50DL	10mm Leaded Button	200 Units/Box			
ARS50DL	8.6mm Leaded Button	200 Units/Box			
AR50GL	10mm Leaded Button	200 Units/Box			
ARS50GL	8.6mm Leaded Button	200 Units/Box			
AR50JL	10mm Leaded Button	200 Units/Box			
ARS50JL 8.6mm Leaded Butto		200 Units/Box			

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, AR50AL-LF.

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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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