

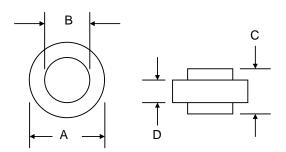
25A AUTOMOTIVE BUTTON DIODE

Features

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

Mechanical Data

- Case: AR or ARS, 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
- Marking: Color Ring Only
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 3



	Α	R	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						

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 25A	AR/S 25B	AR/S 25D	AR/S 25G	AR/S 25J	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 = 150°C	lo	25				А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) at T _J = 150°C	IFSM	400				A	
Forward Voltage @I _F = 25A	VFM	/гм 1.0			V		
Peak Reverse Current	IDM	5.0 250				μΑ	
Reverse Recovery Time (Note 1)	trr	3.0				μS	
Typical Junction Capacitance (Note 2)	Cj	300			pF		
Typical Thermal Resistance (Note 3)	RθJC	1.0			°C/W		
Operating and Storage Temperature Range	Тл, Тэтс	-50 to +175			°C		
Polarity and Voltage Denotation Color Ring		Green	Yellow	Silver	Orange	Red	

- 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.

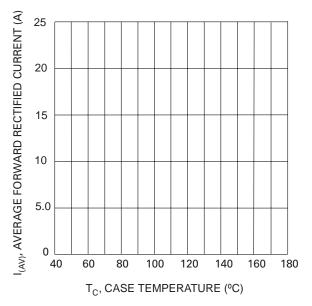
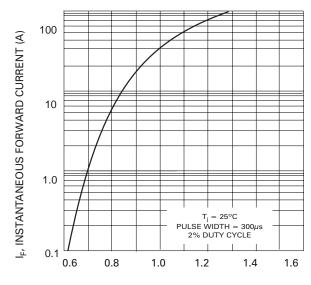


Fig. 1 Forward Current Derating Curve



 V_{F} , INSTANTANEOUS FORWARD VOLTAGE (V)



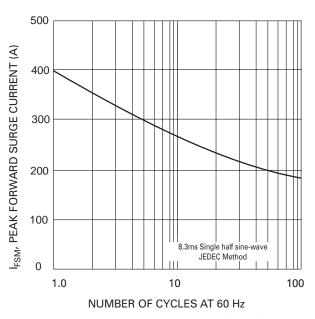


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

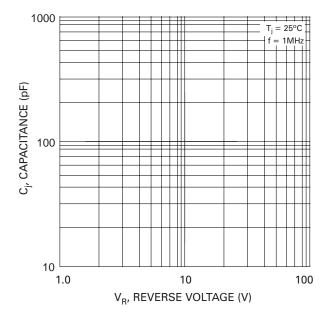


Fig. 4 Typical Junction Capacitance

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity		
AR25A	10mm Button	1000 Units/Box		
ARS25A	8.6mm Button	1000 Units/Box		
AR25B	10mm Button	1000 Units/Box		
ARS25B	8.6mm Button	1000 Units/Box		
AR25D	10mm Button	1000 Units/Box		
ARS25D	8.6mm Button	1000 Units/Box		
AR25G	10mm Button	1000 Units/Box		
ARS25G	8.6mm Button	1000 Units/Box		
AR25J	10mm Button	1000 Units/Box		
ARS25J	8.6mm Button	1000 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, AR25A-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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