







Features

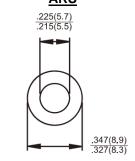
- Plastic material used carries Underwriters Laboratory Classification 94V-0
- ♦ Low cost
- ♦ Diffused junction
- ♦ Low leakage
- ♦ High surge capability
- → High temperature soldering guaranteed: 260°C for 10 seconds
- ♦ Green compound with suffix "G" on packing code & prefix "G" on datecode

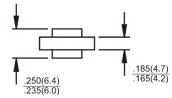
Mechanical Data

- ♦ Case: Molded plastic case
- Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208
- ♦ Polarity: Color ring denotes cathode
- Weight: 1.8 gramsMounting position: Any

ARS50 SERIES

50 AMPS. High Current Button Rectifiers **ARS**





Dimensions in inches and (millimeters)

Marking Diagram

ARS50X = Specific Device Code
G = Green Compound

Y = Year M = Work Month



Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	Symbol	ARS 50A	ARS 50B	ARS 50D	ARS 50G	ARS 50J	ARS 50K	ARS 50M	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current $@T_C$ =135 $^{\circ}$ C	I _{F(AV)}				50				Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) at $T_J \! = \! 150^{\circ}\! \mathrm{C}$	I _{FSM}	500						А	
Maximum Instantaneous Forward Voltage (Note 1) @ 50A	V _F	1.1						V	
Maximum DC Reverse Current at $\ \ \ \ \ \ \ \ \ \ \ \ \$	I _R				5				uA
					250				uA
Typical Reverse Recovery Time (Note 2)	Trr	3.0							uS
Typical Junction Capacitance (Note 3)	Cj	300						pF	
Typical Thermal Resistance (Note 4)	$R_{\theta JC}$	1.0						°C/W	
Operating and Storage Temperature Range	T_J, T_{STG}			-	50 to + 1	75			οС

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

Note 2: Reverse Recovery Time Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A

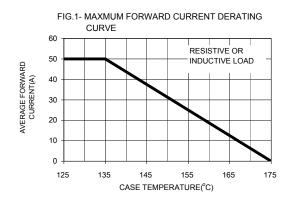
Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

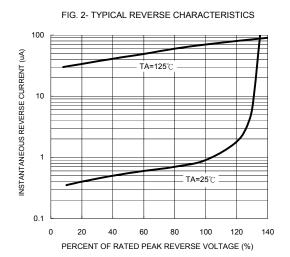
Note 4: Thermal Resistance from Junction to Case, Singe Side Cooled.

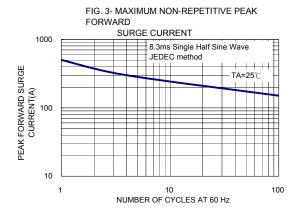
Version:C10

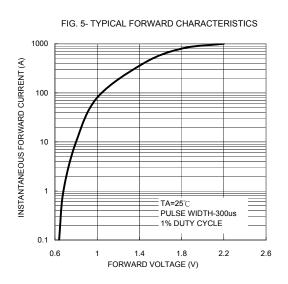


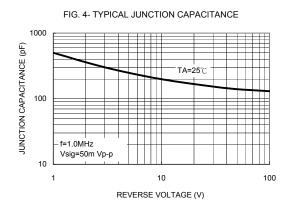
RATINGS AND CHARACTERISTIC CURVES (ARS50 SERIES)



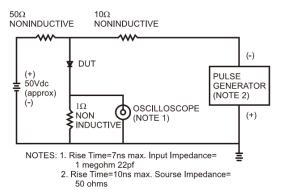


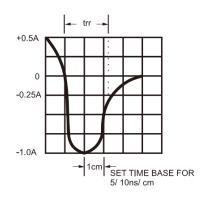












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