



RoHS



Features

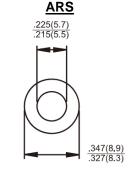
- Plastic material used carries Underwriters Laboratory Classification 94V-0
- Low cost construction utilizing void-free molded plastic technique
- ♦ Low cost
- ♦ Diffused junction
- ♦ Low leakage
- High surge capability
- High temperature soldering guaranteed:
 260°C for 10 seconds
- Green compound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

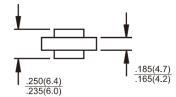
Mechanical Data

- ♦ 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

ARS35 SERIES

35.0 AMPS. High Current Button Rectifiers





Dimensions in inches and (millimeters)

Marking Diagram

Υ

М



- ARS35X = Specific Device Code
- G = Green Compound
 - = Year
 - = Work Month

Maximum Ratings and Electrical Characteristics

Rating at 25 °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 35A	ARS 35B	ARS 35D	ARS 35G	ARS 35J	ARS 35K	ARS 35M	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 $@T_c$ =150 $^{\circ}$ C	I _{F(AV)}				35				Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) at $T_J \! = \! 150 ^{\circ}\!$	I _{FSM}				500				Α
Maximum Instantaneous Forward Voltage (Note 1) @ 35A	V _F	1.0						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	175			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

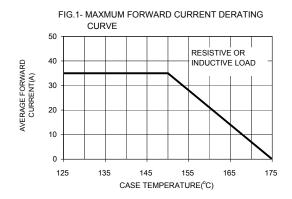
Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

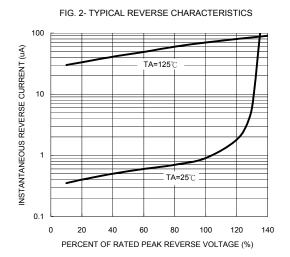
Note 4: Thermal Resistance from Junction to Case, Singe Side Cooled.

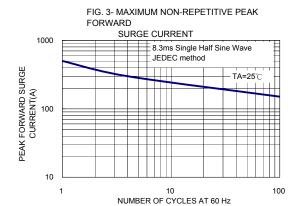
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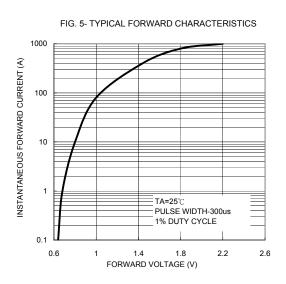


RATINGS AND CHARACTERISTIC CURVES (ARS35 SERIES)









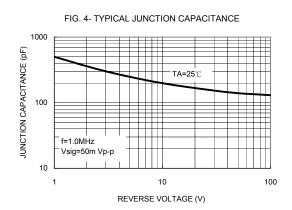


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

