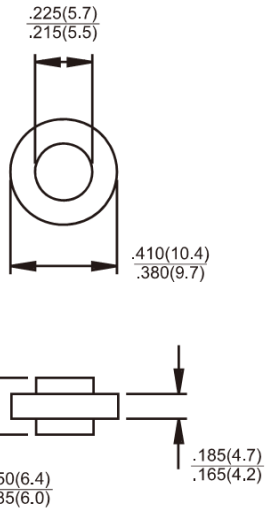
TAIWAN SEMICONDUCTOR

RoHS COMPLIANCE

AR35 SERIES

35.0 AMPS. High Current Button Rectifiers

AR



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℃ 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 grams
- ✧ Mounting position: Any

Dimensions in inches and (millimeters)

Marking Diagram

AR35X = Specific Device Code
G = Green Compound
Y = Year
M = Work Month

Maximum Ratings and Electrical Characteristics

Rating at 25 ℃ 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	AR 35A	AR 35B	AR 35D	AR 35G	AR 35J	AR 35K	AR 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 ℃	$I_{F(AV)}$	35							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) @T_J=150℃	I_{FSM}	500							A
Maximum Instantaneous Forward Voltage (Note 1) @ 35A	V_F	1.0							V
Maximum DC Reverse Current at @ T_A=25 ℃	I_R	5							uA
Rated DC Blocking Voltage @ T_A=125℃		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							^{O}C/W
Operating and Storage Temperature Range	T_J, T_{STG}	- 50 to + 175							^{O}C

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.

RATINGS AND CHARACTERISTIC CURVES (AR35 SERIES)

FIG.1- MAXMUM FORWARD CURRENT DERATING CURVE

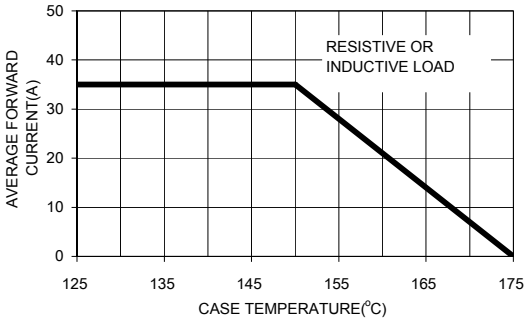


FIG. 2- TYPICAL REVERSE CHARACTERISTICS

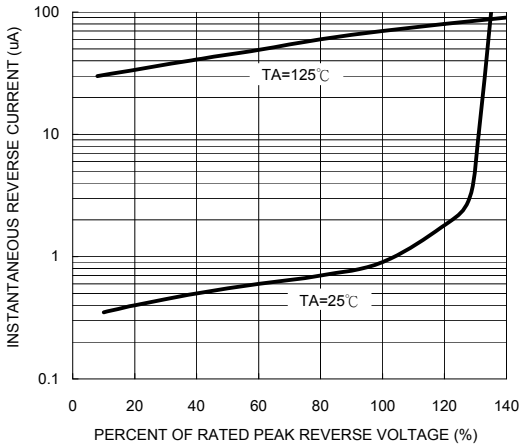


FIG. 3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

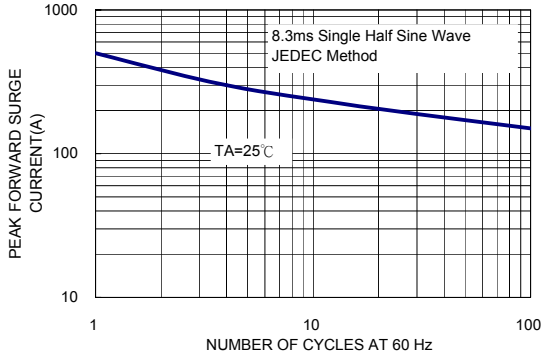


Fig. 5- TYPICAL FORWARD CHARACTERISTICS

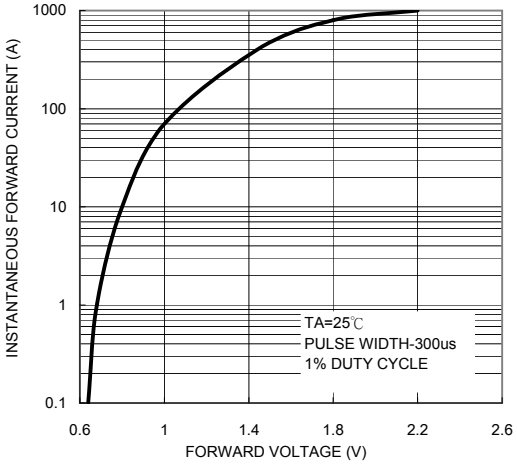


FIG. 4- TYPICAL JUNCTION CAPACITANCE

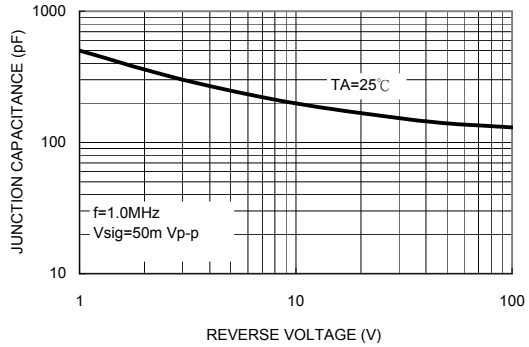
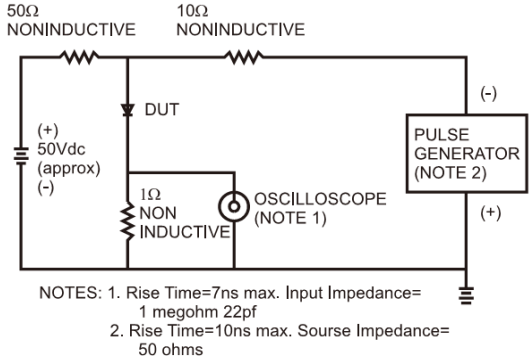
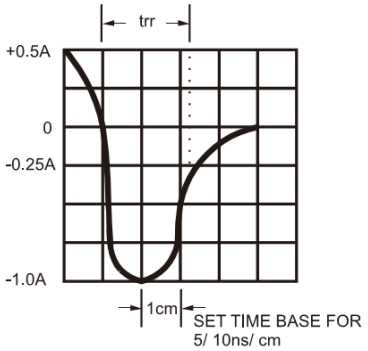


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





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