

## 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	ARS 35A	ARS 35B	ARS 35D	ARS 35G	ARS 35J	ARS 35K	ARS 35M	Units
		AR 35A	AR 35B	AR 35D	AR 35G	AR 35J	AR 35K	AR 35M	
Maximum Recurrent Peak Revere Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Tc = 150°C	I <sub>(AV)</sub>				35				А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method ) at T <sub>J</sub> =150°C	I <sub>FSM</sub>	500							А
Maximum Instantaneous Forward Voltage @ 35A	$V_{F}$	1.0							V
Maximum DC Reverse Current @ Tc=25°C	1-	5.0							uA
at Rated DC Blocking Voltage @ Tc=100 $^\circ\!\mathbb{C}$	I <sub>R</sub>	250							uA
Typical Reverse Recovery Time (Note 2)	Trr	3.0							uS
Typical Junction Capacitance (Note 1) $T_J=25^{\circ}C$	Cj	300							pF
Typical Thermal Resistance (Note 3)	$R\theta_{JC}$	1.0							<b>C</b> /W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-50 to +175							Ľ

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

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

3. Thermal Resistance from Junction to Case, Singe Side Cooled.



