

HIGH CURRENT AUTOMOBILE RECTIFIER	REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 35 Amperes
FEATURES <ul style="list-style-type: none"> ● Utilizing viod-free molded plastic technique ● Low power loss ● High Surge Capability ● High temperature soldering guaranteed: 265°C/10S 	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> ARS </div> <div style="text-align: center;"> AR </div> </div> <div style="text-align: center; margin-top: 20px;"> </div>
MECHANICAL DATA <ul style="list-style-type: none"> ● Terminals: Plated axial terminals solderable per MIL STD-202E, Method 208C ● Case: Molded with UL-94 Class V-O recognized flame retardant epoxy ● Polarity: Color ring denotes cathode 	Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	ARS35A	ARS35B	ARS35D	ARS35G	ARS35J	ARS35K	ARS35M	UNIT
		AR35A	AR35B	AR35D	AR35G	AR35J	AR35K	AR35M	
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 _A =55 °C	I(AV)	35							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I _{FSM}	500							A
Maximum Instantaneous Forward Voltage (at Rated Forward Current)	V _F	1.1							V
Maximum DC Reverse Current @T _A =25°C at Rated DC Bolcking Voltage @T _A =150°C	I _R	10 1000							uA
Typical Junction Capacitance Element (Note1)	C _J	300							pF
Typical Thermal Resistance (Note2)	R _{θJA}	1.0							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C
Polarity and voltage denotation color ring		Red	Yellow	Silver	Orange	Green	Blue	Violet	

NOTES:1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

2.Thermal resistance from junction of ambient.

RATING AND CHARACTERISTIC CURVES

ARS35, AR35 SERIES



FIG. 1 – FORWARD CURRENT DERATING CURVE

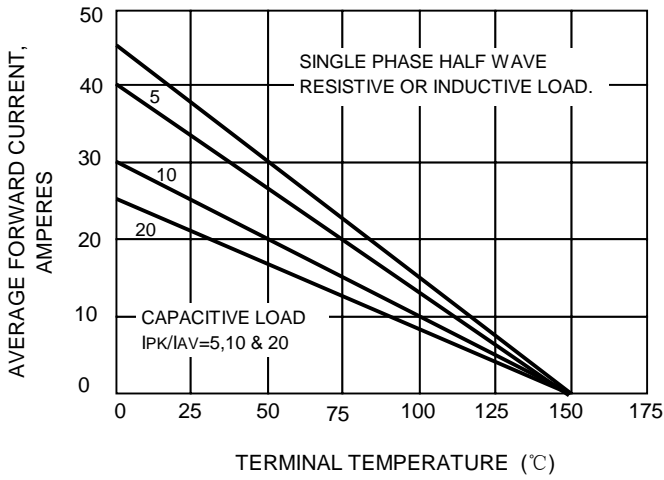


FIG.2- NON-REPETITIVE
PEAK FORWARD SURGE CURRENT

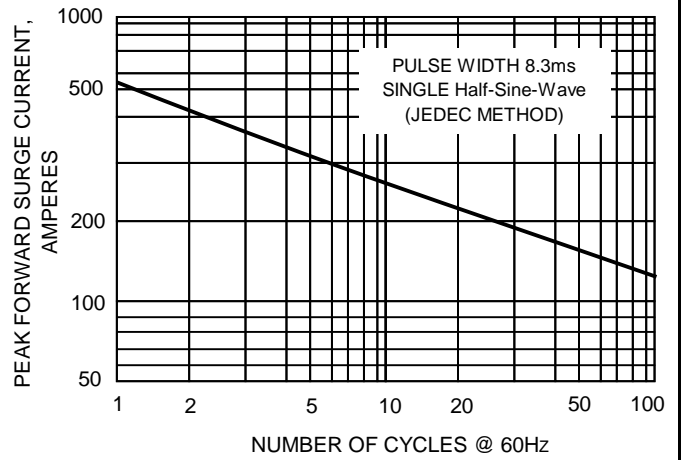


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

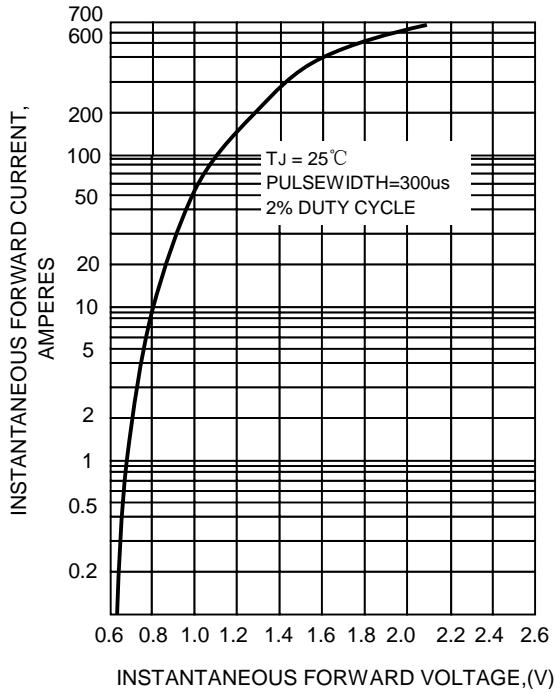


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

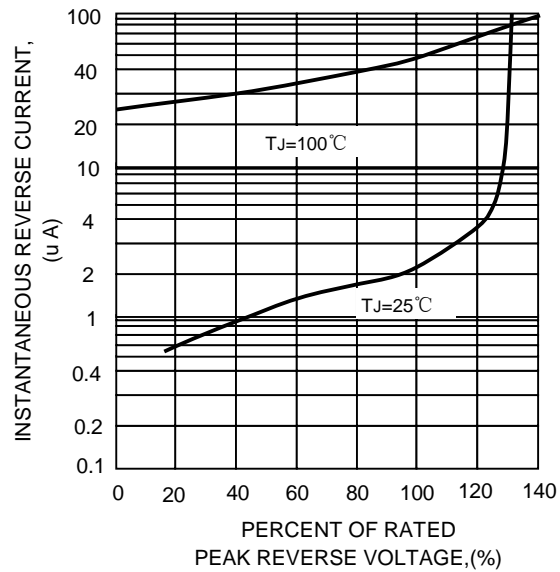


FIG.5-TYPICAL JUNCTION CAPACITANCE

