ARS35A thru ARS35M

HIGH CURRENT AUTOMOBILE RECTIFIER	REVERSE VOLTAGE - **50** to **1000**Volts FORWARD CURRENT - **35** Amperes

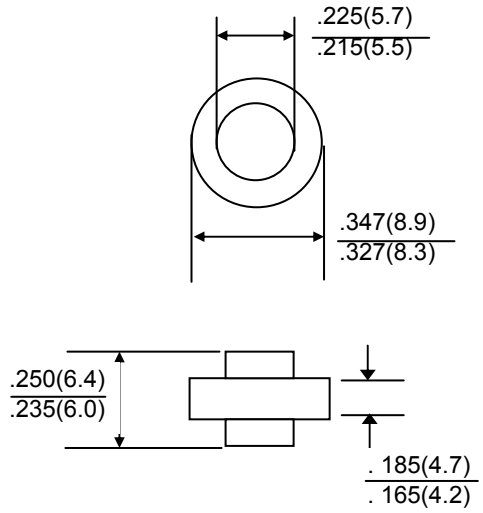
FEATURES

- ●Utilizing viod-free molded plastic technique
- ●Low power loss
- ●High Surge Capability
- ●High temperature soldering guaranteed:
  265℃/10S

MECHANICAL DATA

- ●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

ARS



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ 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
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 ℃	$I_{(AV)}$	35							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I_{FSM}	600							A
Maximum Instantaneous Forward Voltage (at Rated Forward Current)	V_F	1.1							V
Maximum DC Reverse Current @T_A=25℃ at Rated DC Bolcking Voltage @T_A=150℃	I_R	10 1000							uA
Typical Junction Capacitance Element (Note1)	C_J	300							pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	1.0							℃/W
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃
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.

3.The typical data above is for reference only(典型值仅供参考).

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RATING AND CHARACTERISTIC CURVES
ARS35A thru ARS35M

FIG. 1 – FORWARD CURRENT DERATING CURVE

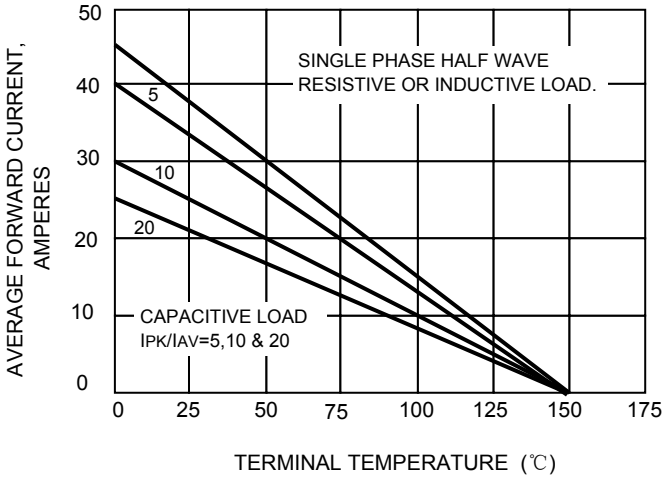


FIG.2- NON-REPETITIVE
PEAK FORWARD SURGE CURRENT

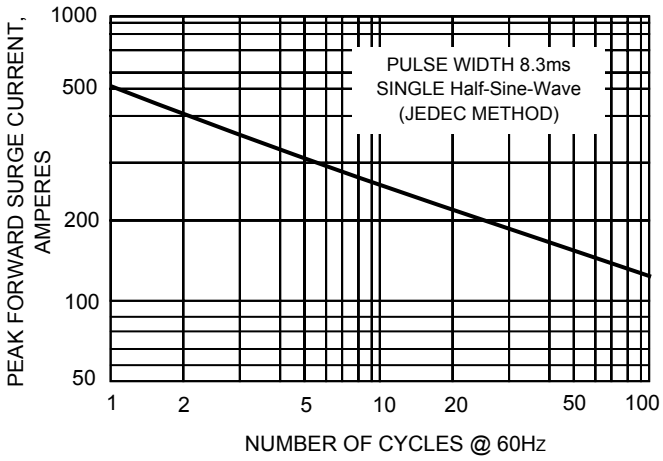


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

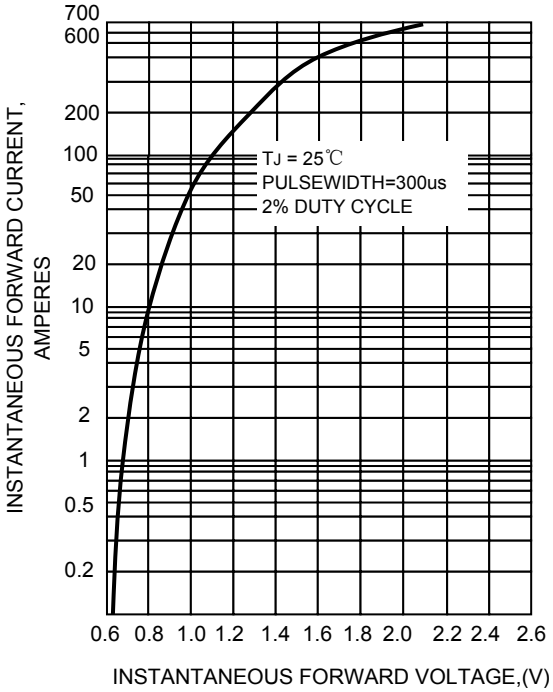


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

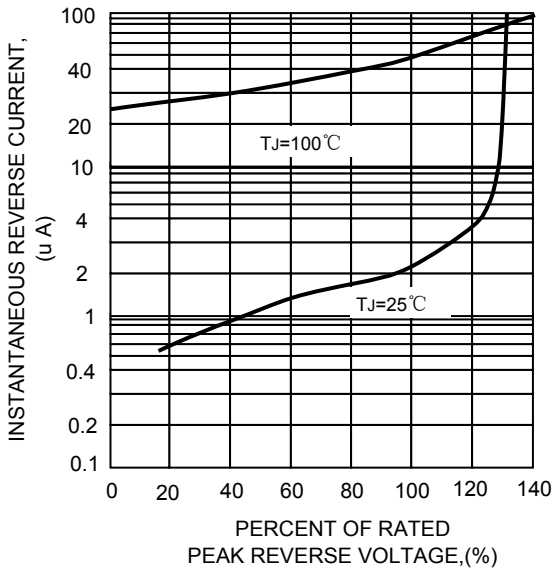
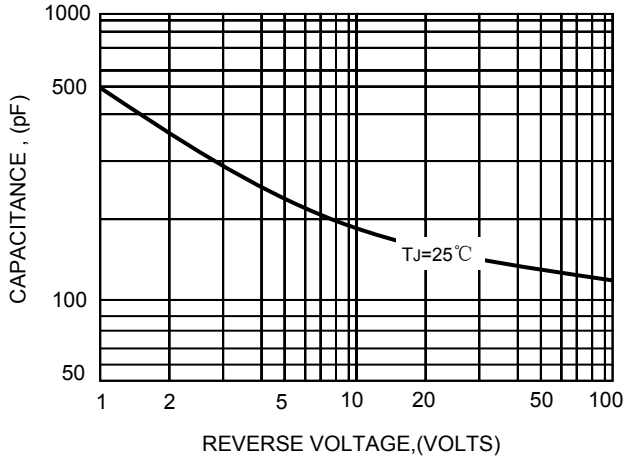


FIG.5-TYPICAL JUNCTION CAPACITANCE



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

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