

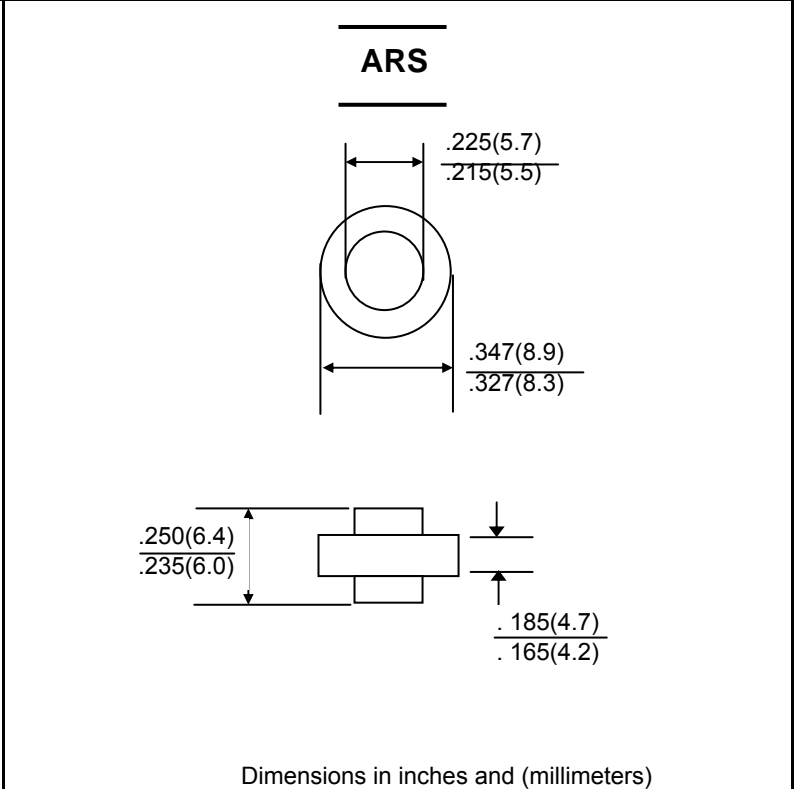
HIGH CURRENT AUTOMOBILE RECTIFIER	REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 25 Amperes
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FEATURES

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

MECHANICAL DATA

- Terminal: 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



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	ARS25A	ARS25B	ARS25D	ARS25G	ARS25J	ARS25K	ARS25M	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 °C	I _(AV)	25							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I _{FSM}	400							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	Orange	Silver	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).

FIG. 1 – FORWARD CURRENT DERATING CURVE

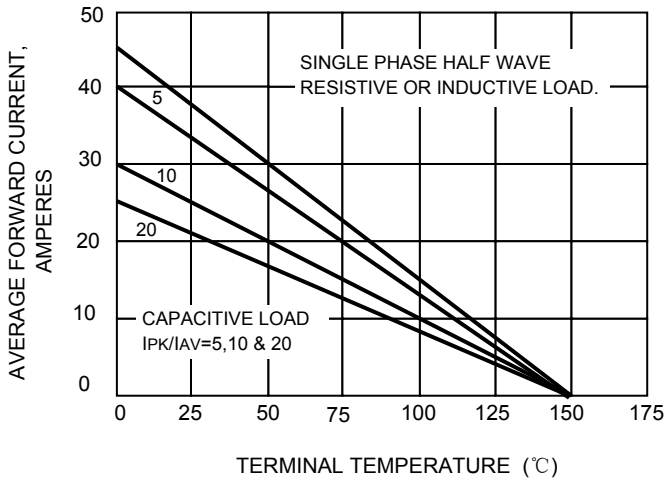


FIG.2-MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT

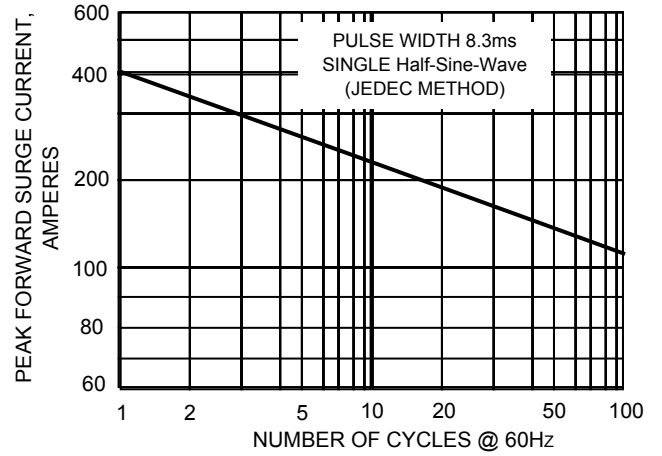


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

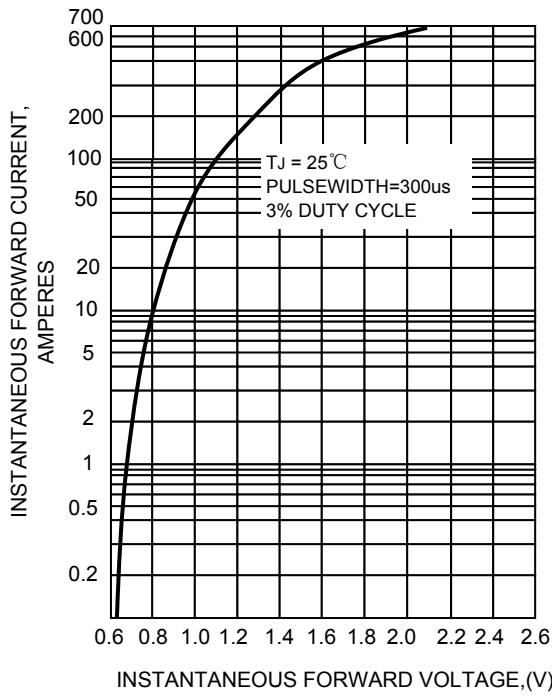


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

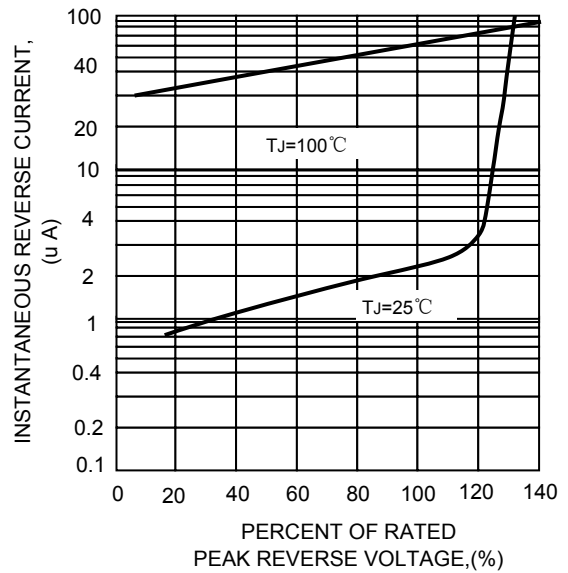
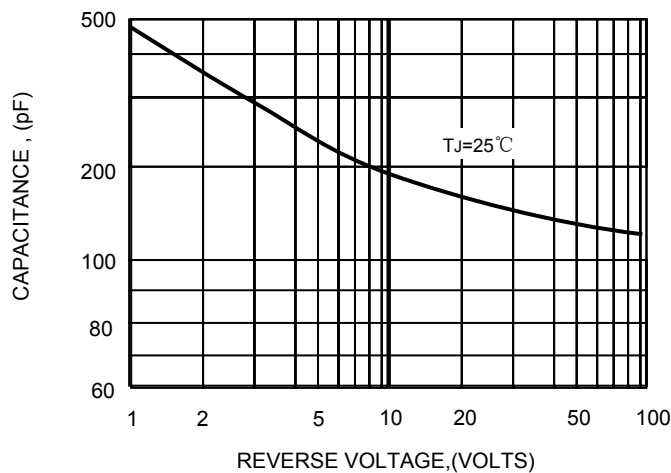


FIG.5-TYPICAL JUNCTION CAPACITANCE



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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