

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

## 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	AR35A	AR35B	AR35D	AR35G	AR35J	AR35K	AR35M	UNIT
Maximum Recurrent Peak Reverse 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 @T <sub>A</sub> =55 °C	I(AV)	35							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>	500							A
Maximum Instantaneous Forward Voltage (at Rated Forward Current)	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current @T <sub>A</sub> =25°C at Rated DC Bolcking Voltage @T <sub>A</sub> =150°C	I <sub>R</sub>	10 1000							uA
Typical Junction Capacitance Element (Note1)	C <sub>J</sub>	300							pF
Typical Thermal Resistance (Note2)	R <sub>θJA</sub>	1.0							°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-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**  
**AR35A thru AR35M**



FIG. 1 – FORWARD CURRENT DERATING CURVE

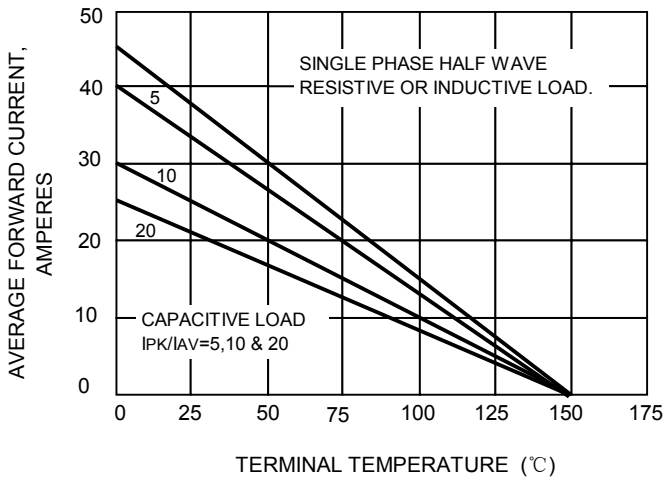


FIG.2- NON-REPETITIVE  
PEAK FORWARD SURGE CURRENT

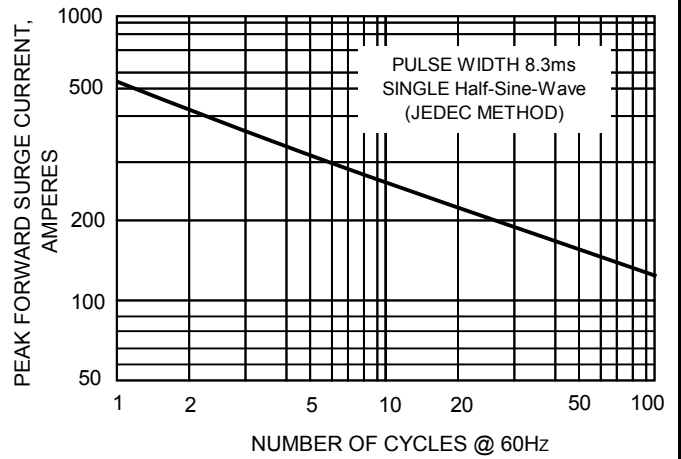


FIG.3-TYPICAL INSTANTANEOUS  
FORWARD CHARACTERISTICS

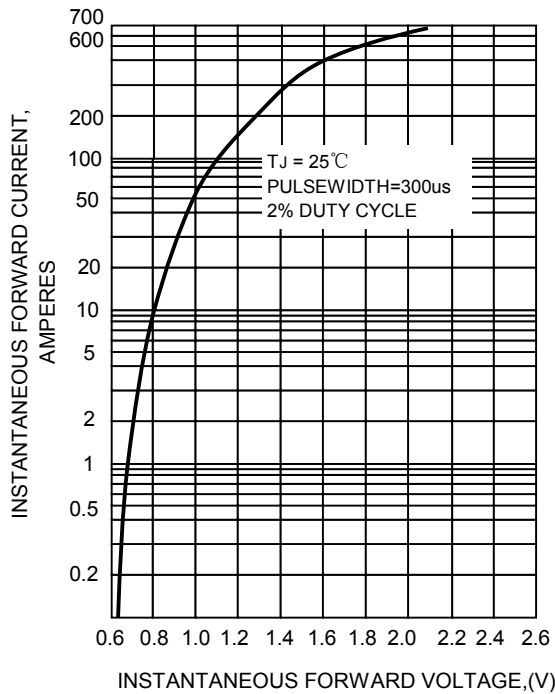


FIG.4-TYPICAL REVERSE  
CHARACTERISTICS

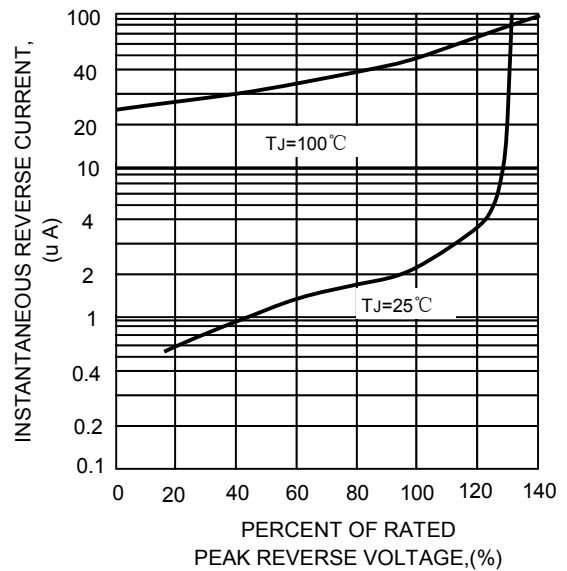


FIG.5-TYPICAL JUNCTION CAPACITANCE

