

<b>SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS</b>	<b>REVERSE VOLTAGE - 20 to 100 Volts FORWARD CURREN - 1.0 Amperes</b>
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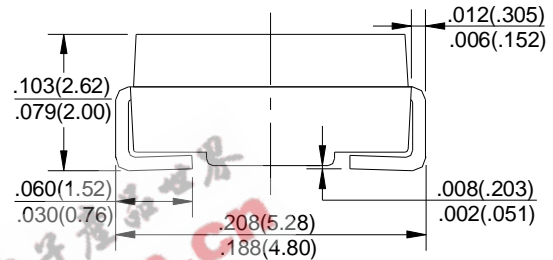
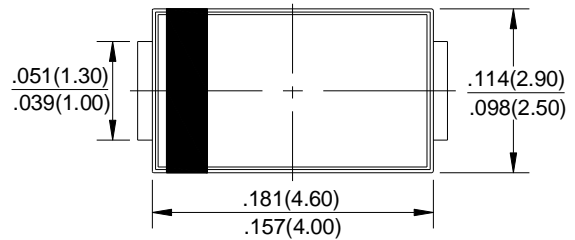
### FEATURES

- For surface mounted applications
- Metal-Semiconductor junction with guarding
- Epitaxial construction
- Very low forward votage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- For use in lowvoltage, high frequency inverters, free wheeling, and polarity protection applications.

### MECHANICAL DATA

- Case: Molded Plastic
- Polarity: Indicated by cathode band
- Weight: 0.002 ounces, 0.053 grams

### A-SMA



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	SS12A	SS13A	SS14A	SS15A	SS16A	SS18A	SS110A	UNIT	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	V	
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	V	
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	V	
Maximum Average Forward Rectified Current @T <sub>L</sub> =100 °C	I(AV)	1.0							A	
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	I <sub>FSM</sub>	40							A	
Maximum Forward Voltage at 1.0A DC	V <sub>F</sub>	0.45	0.55	0.6	0.70		0.85		V	
Maximum DC Reverse Current @T <sub>J</sub> =25°C at Rated DC Blocking Voltage @T <sub>J</sub> =100°C	I <sub>R</sub>	1.0							10	mA
Typical Junction Capacitance (Note1)	C <sub>J</sub>	110							pF	
Typical Thermal Resistance (Note2)	R <sub>θJL</sub>	20							°C/W	
Operating Temperature Range	T <sub>J</sub>	-55 to + 150							°C	
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150							°C	

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

2.Thermal resistance junction to lead.

FIG. 1 - FORWARD CURRENT DERATING CURVE

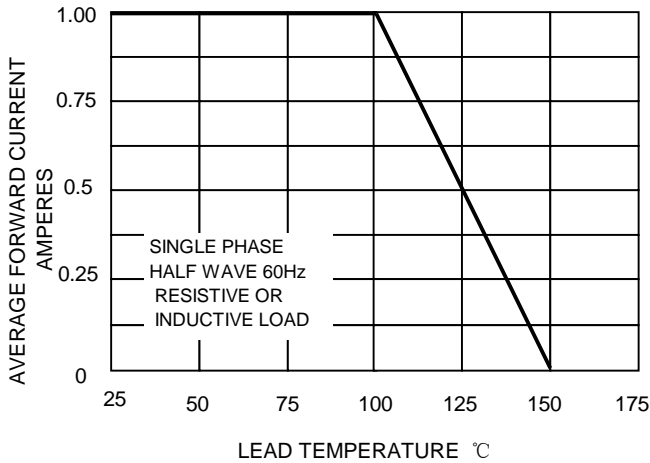


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

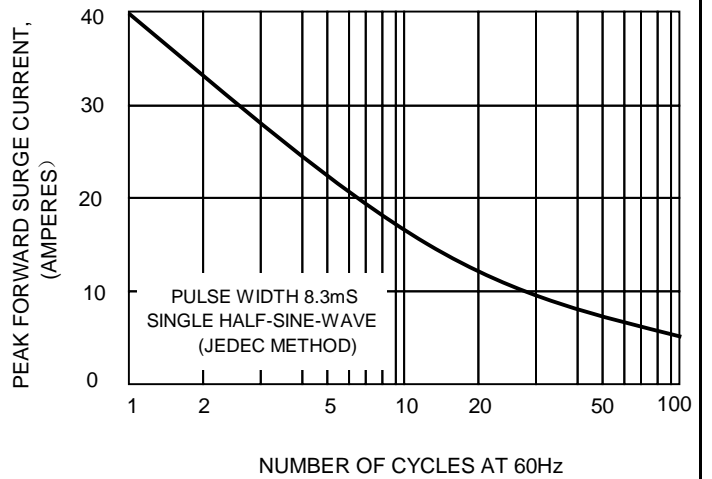


FIG.4-TYPICAL FORWARD CHARACTERISTICS

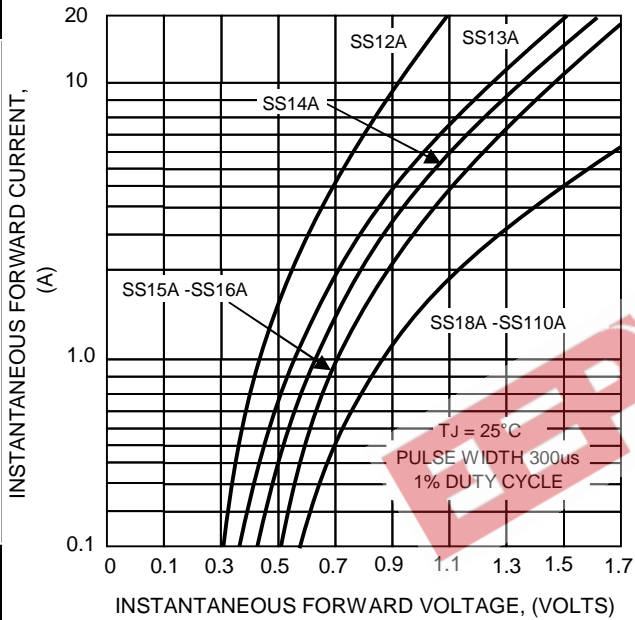


FIG.4-TYPICAL JUNCTION CAPACITANCE

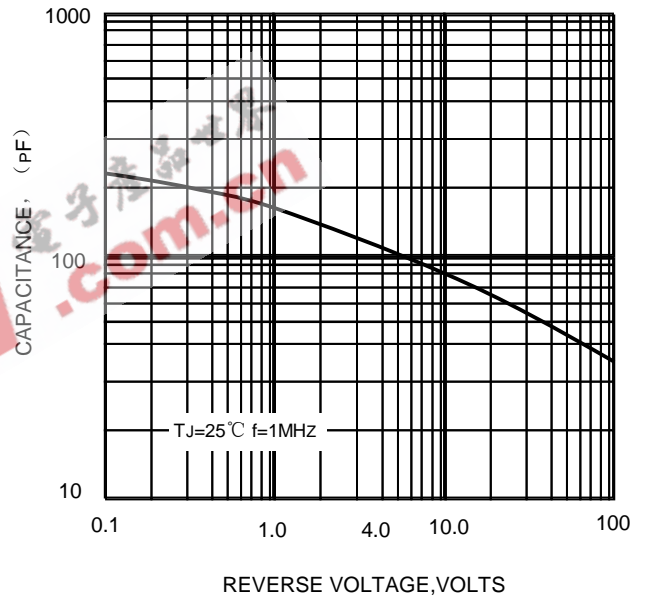


FIG.5-TYPICAL REVERSE CHARACTERISTICS

