

<p><b>SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS</b></p> <p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>● For surface mounted applications</li> <li>● Metal-Semiconductor junction with guarding</li> <li>● Epitaxial construction</li> <li>● Very low forward voltage drop</li> <li>● High current capability</li> <li>● Plastic material has UL flammability classification 94V-0</li> <li>● For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>● Case: Molded Plastic</li> <li>● Polarity: Indicated by cathode band</li> <li>● Weight: 0.002 ounces, 0.064 grams</li> </ul>	<p>REVERSE VOLTAGE - <b>20 to 100</b> Volts FORWARD CURRENT - <b>2.0</b> Amperes</p> <div style="text-align: center;"> <p><b>SMA</b></p> <p>Dimensions in inches and (millimeters)</p> </div>
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**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	SS22A	SS23A	SS24A	SS25A	SS26A	SS28A	SS210A	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	100	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current @TL=100 °C	I(AV)	2.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	IFSM	60							A
Maximum Forward Voltage at 2.0A DC	VF	0.55		0.7		0.85		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage @Tj=25°C @Tj=100°C	IR	1.0							mA
Typical Junction Capacitance (Note1)	CJ	200							pF
Typical Thermal Resistance (Note2)	RθJL	15							°C/W
Operating Temperature Range	TJ	-55 to + 125							°C
Storage Temperature Range	TSTG	-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.

**RATING AND CHARACTERISTIC CURVES**  
**SS22A thru SS210A**



FIG. 1 - FORWARD CURRENT DERATING CURVE

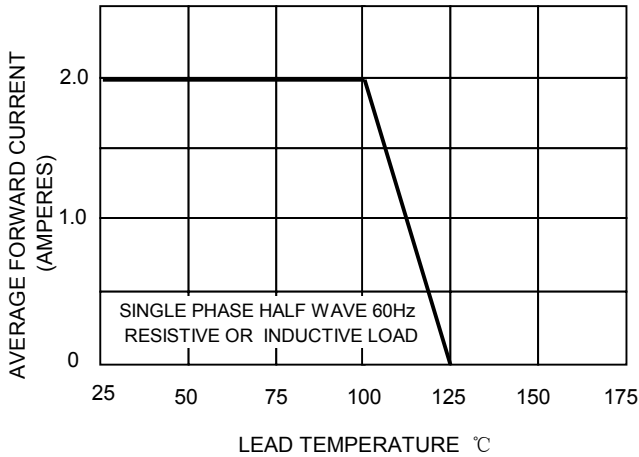


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

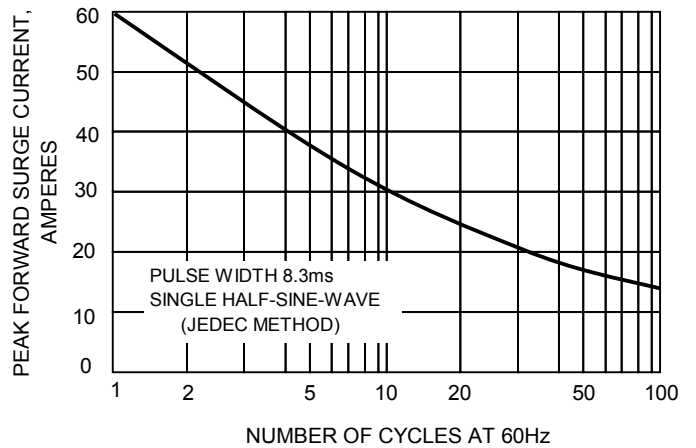


FIG.3-TYPICAL FORWARD CHARACTERISTICS

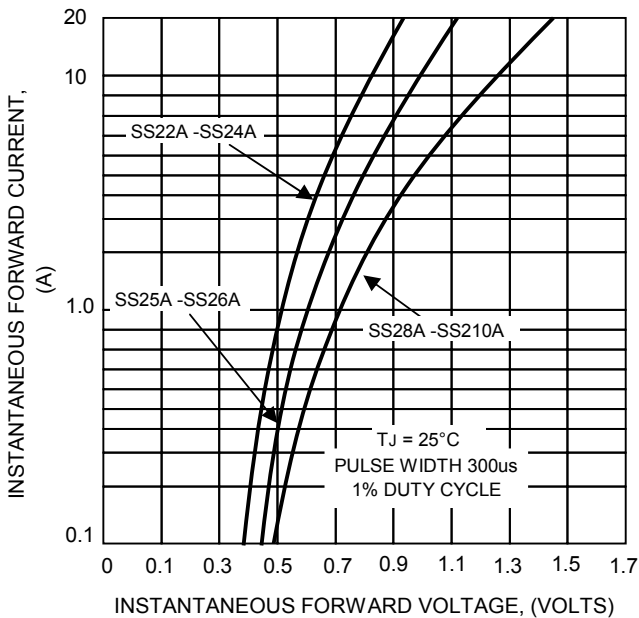


FIG.4-TYPICAL JUNCTION CAPACITANCE

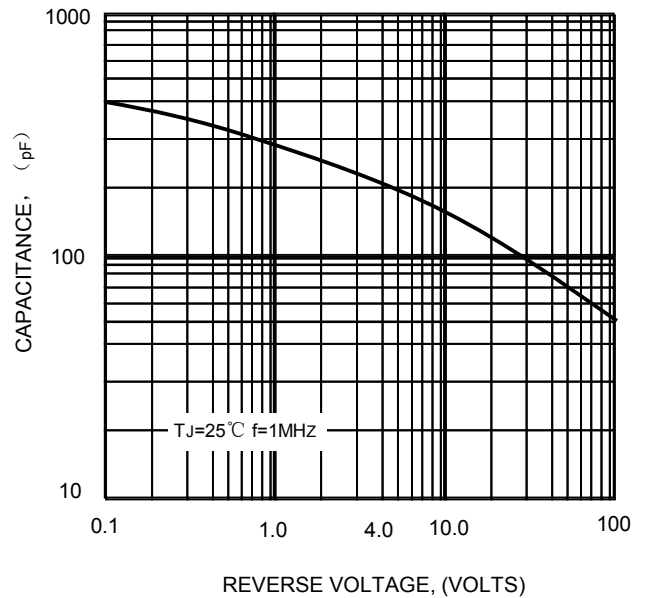


FIG.5-TYPICAL REVERSE CHARACTERISTICS

