

<b>SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS</b>	<b>REVERSE VOLTAGE - 20 to 100 Volts FORWARD CURRENT - 1.0 Ampere</b>
<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, 0.053 grams</li> </ul>	<p><b>A-SMA</b></p> <p>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%

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

CHARACTERISTICS	SYMBOL	SS12A	SS13A	SS14A	SS15A	SS16A	SS18A	SS110A	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)	1.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	IFSM	40							A
Maximum Forward Voltage at 1.0A DC	VF	0.55		0.70		0.85			V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	IR	1.0 10							mA
Typical Junction Capacitance (Note1)	CJ	110							pF
Typical Thermal Resistance (Note2)	RθJL	20							°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**  
**SS12A thru SS110A**



FIG. 1 - FORWARD CURRENT DERATING CURVE

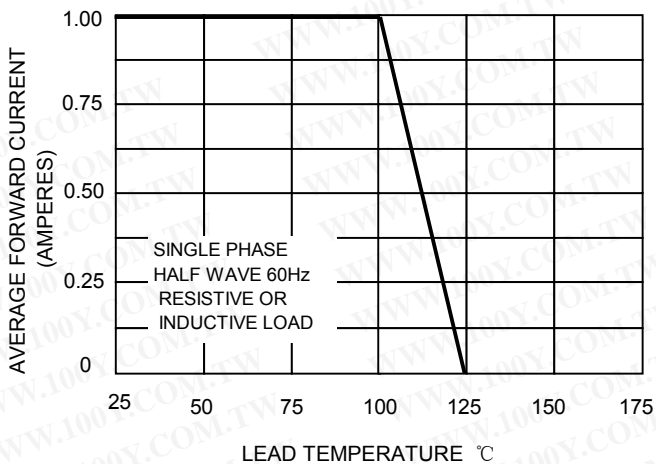


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

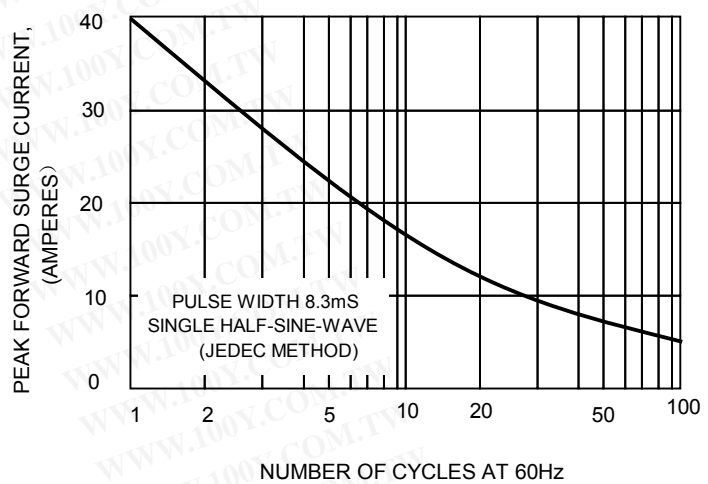


FIG.3-TYPICAL FORWARD CHARACTERISTICS

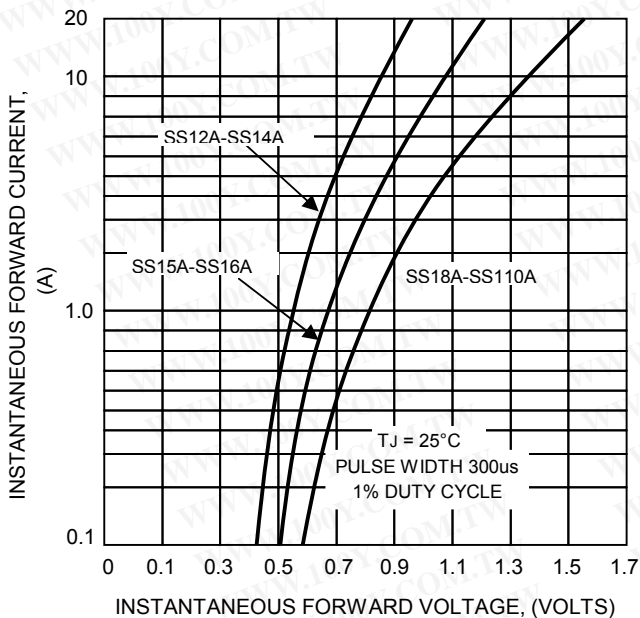


FIG.4-TYPICAL JUNCTION CAPACITANCE

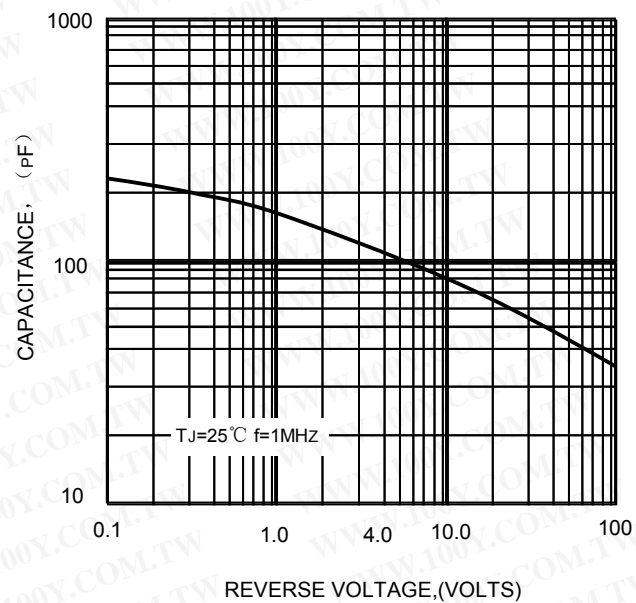


FIG.5-TYPICAL REVERSE CHARACTERISTICS

