

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS		REVERSE VOLTAGE - 20 to 100 Volts FORWARD CURRENT - 1.0 Amperes							
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 low voltage, high frequency inverters, free wheeling, and polarity protection applications. MECHANICAL DATA ● Case: Molded Plastic ● Polarity: Color band denotes cathode ● Weight: 0.003 ounces,0.093 grams ● Mounting position: Any		SMB 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% 勝特力材料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw									
CHARACTERISTICS	SYMBOL	SS12B	SS13B	SS14B	SS15B	SS16B	SS18B	SS110B	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 Surage 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	0.45	0.55	0.6	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 + 150							°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 SS12B thru SS110B



FIG. 1 - FORWARD CURRENT DERATING CURVE

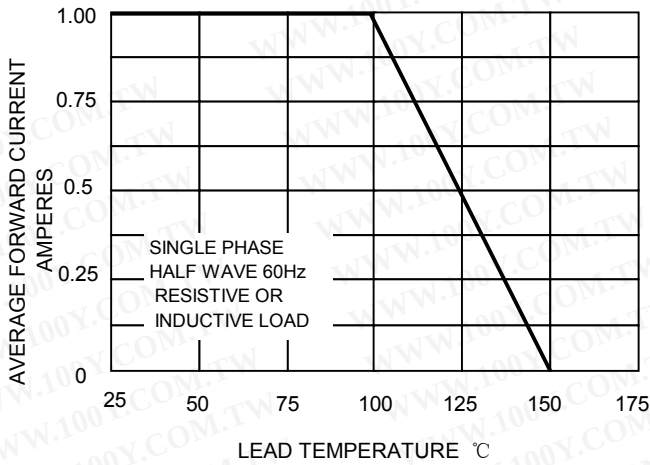


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

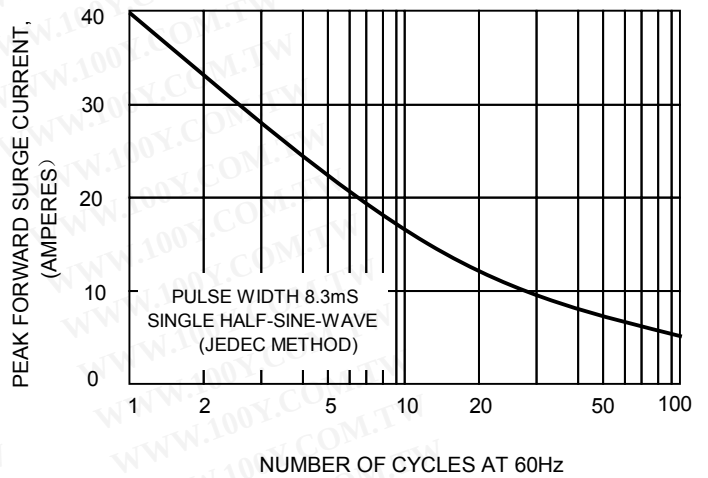


FIG.3-TYPICAL FORWARD CHARACTERISTICS

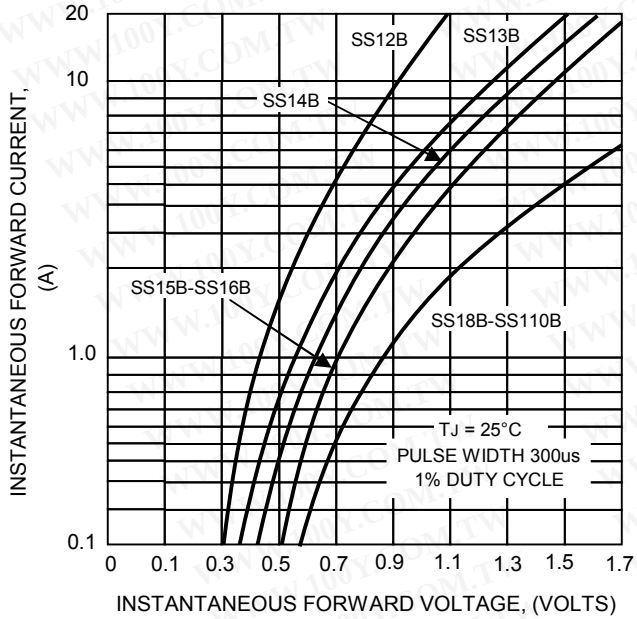


FIG.4-TYPICAL JUNCTION CAPACITANCE

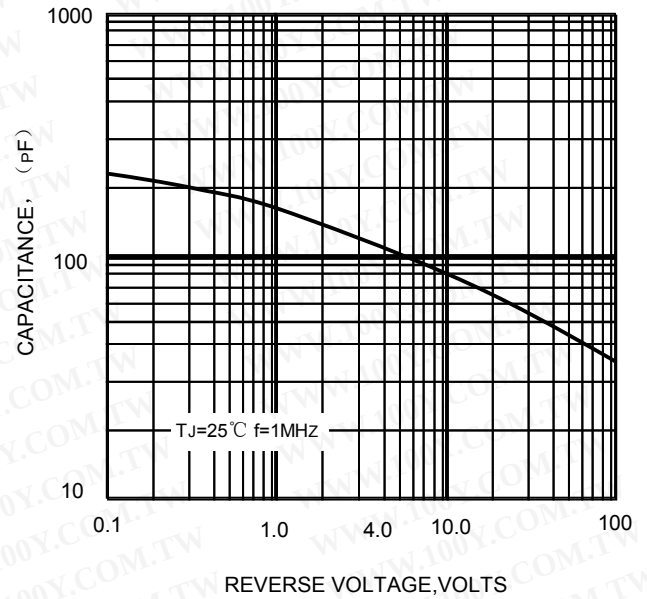


FIG.5-TYPICAL REVERSE CHARACTERISTICS

