

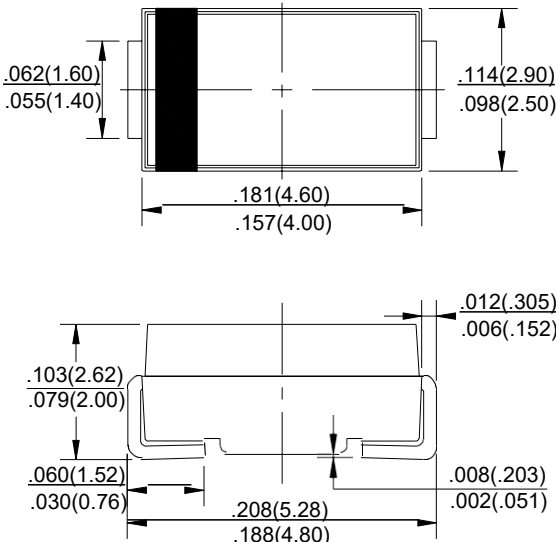
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS		REVERSE VOLTAGE - 20 to 100 Volts FORWARD CURRENT - 5.0 Amperes							
FEATURES • Metal-Semiconductor junction with gard ring • Epitaxial construction • Low forward voltage drop • High current capability • The plastic material carries UL recognition 94V-0 • For use in low vlotage, high frequency inverters, free wheeling, and polarity protection applications		SMA  Dimensions in inches and (millimeters)							
MECHANICAL DATA • Case: Molded Plastic • Polarity:Color band denotes cathode • Weight: 0.003 ounces,0.093 grams									
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS									
Rating at 25℃ ambient temperature unless otherwise specified.									
Single phase, half wave ,60Hz, resistive or inductive load.									
For capacitive load, derate current by 20%									
CHARACTERISTICS	SYMBOL	SS52A	SS53A	SS54A	SS55A	SS56A	SS58A	SS510A	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 0.375" (9.5mm) Lead Lengths @TL=95℃	I(AV)	5.0							A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	150							A
Maximum Forward Voltage at 5.0A DC	VF	0.45	0.55	0.6	0.7		0.85		V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Bolcking Voltage @TJ=100℃	IR	1.0 50							mA
Typical Junction Capacitance (Note1)	CJ	500			350				pF
Typical Thermal Resistance (Note2)	RθJA	15			10				℃/W
Operating Temperature Range	TJ	-55 to +150							℃
Storage Temperature Range	TSTG	-55 to +150							℃
NOTES: 1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC									
2.Thermal resistance junction to ambient,									

FIG. 1 – FORWARD CURRENT DERATING CURVE

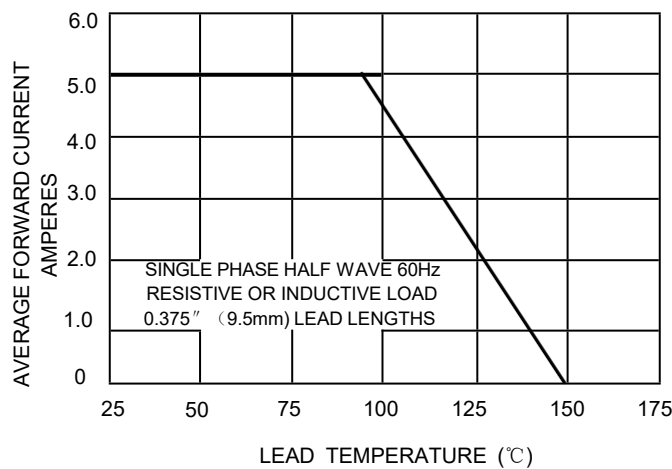


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

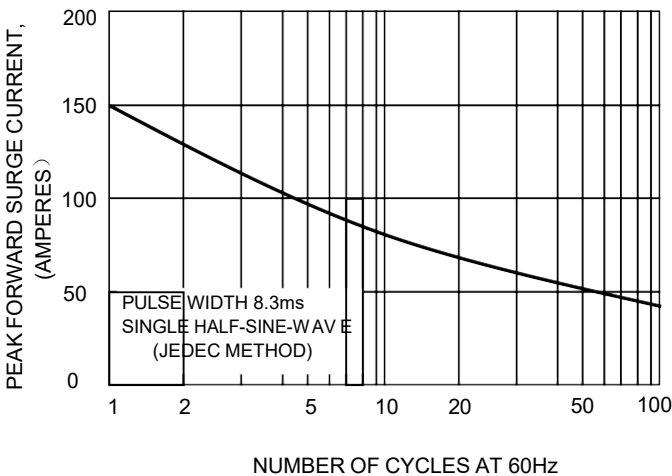


FIG.3 – TYPICAL JUNCTION CAPACITANCE

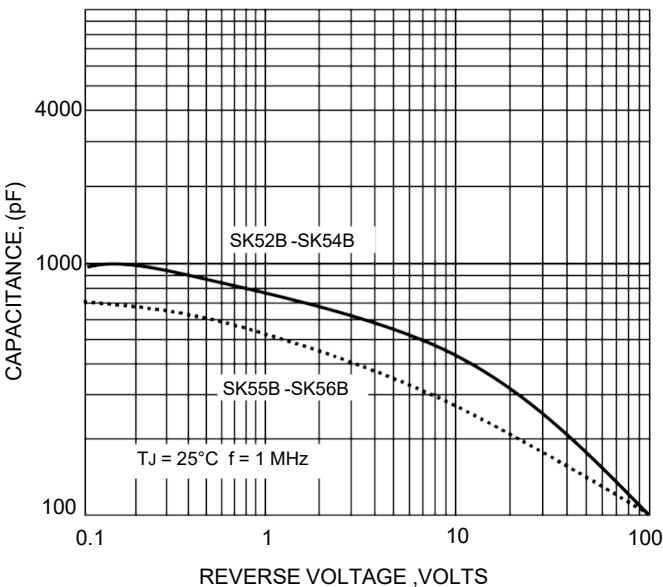


FIG.4-TYPICAL FORWARD CHARACTERISTICS

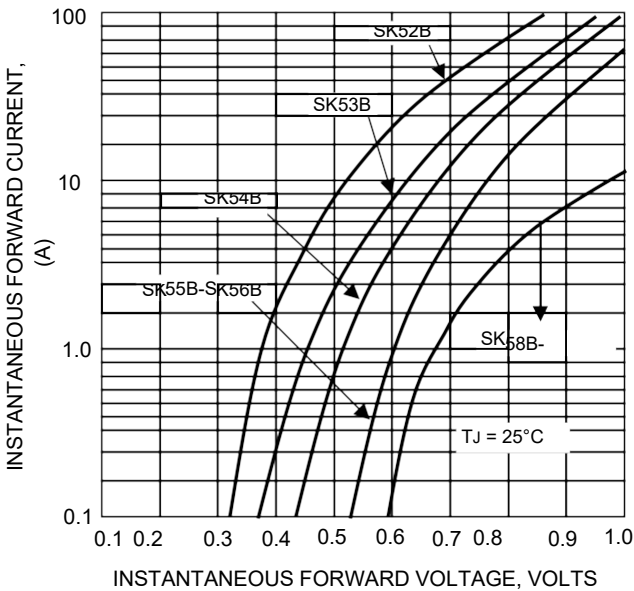


FIG.5-TYPICAL REVER CHARACTERISTICS

