

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE - 20 to 100 Volts FORWARD CURRENT - 3.0 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 lowvoltage, high frequency inverters, free wheeling, and polarity protection applications. MECHANICAL DATA ●Case: Molded Plastic ●Polarity:Color band denotes cathode ●Weight: 0.007 ounces,0.21 grams	SMC 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	SS32	SS33	SS34	SS35	SS36	SS38	SS310	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)	3.0							A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	IFSM	80							A
Maximum Forward Voltage at 3.0A DC	VF	0.45	0.55	0.6	0.7		0.85		V
Maximum DC Reverse Current at Rated DC Blocking Voltage @Tj=25°C @Tj=100°C	IR	1.0 20							mA
Typical Junction Capacitance (Note1)	CJ	250							pF
Typical Thermal Resistance (Note2)	RθJL	10							°C/W
Typical Thermal Resistance (Note3)	RθJA	50							°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. 3.Thermal resistance junction to ambient.									
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FIG. 1 - FORWARD CURRENT DERATING CURVE

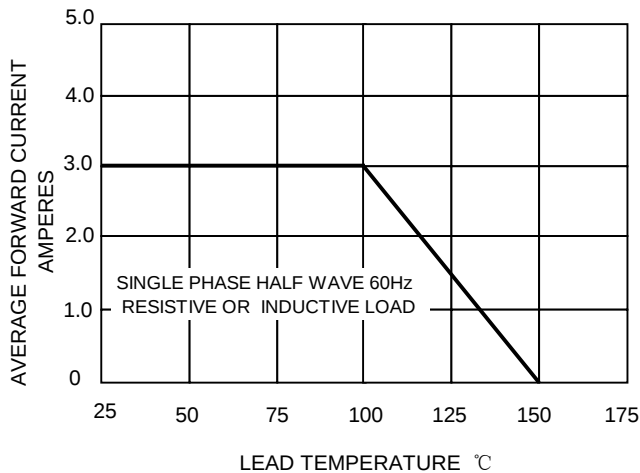


FIG.2 - MAXIMUM NON-REPETITIVE
SURGE CURRENT

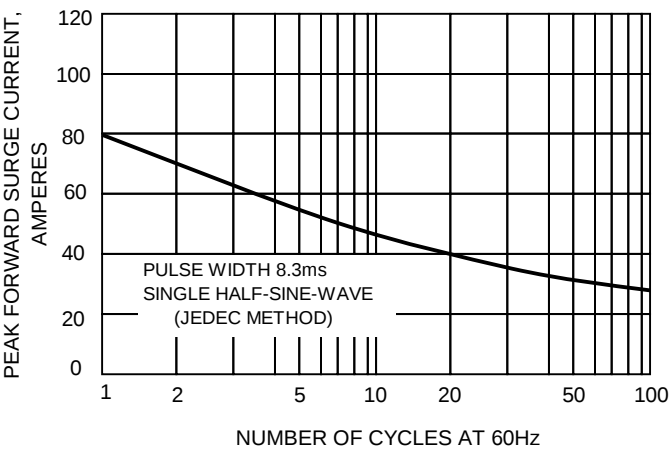


FIG.3-TYPICAL FORWARD CHARACTERISTICS

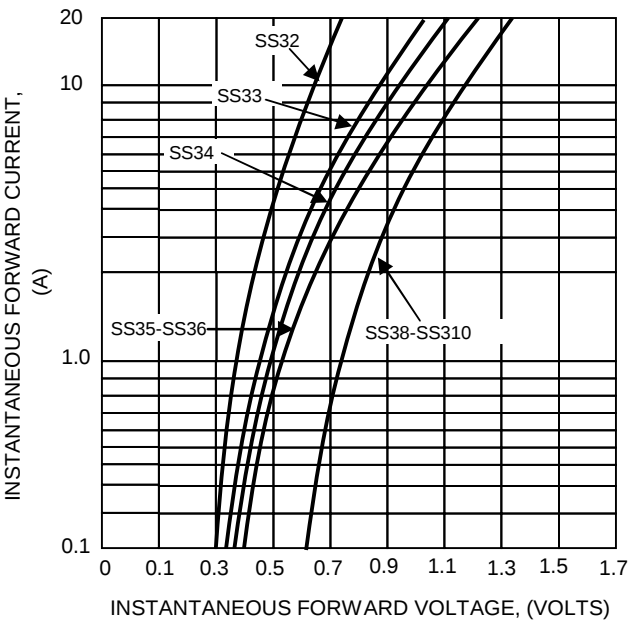


FIG.4-TYPICAL JUNCTION CAPACITANCE

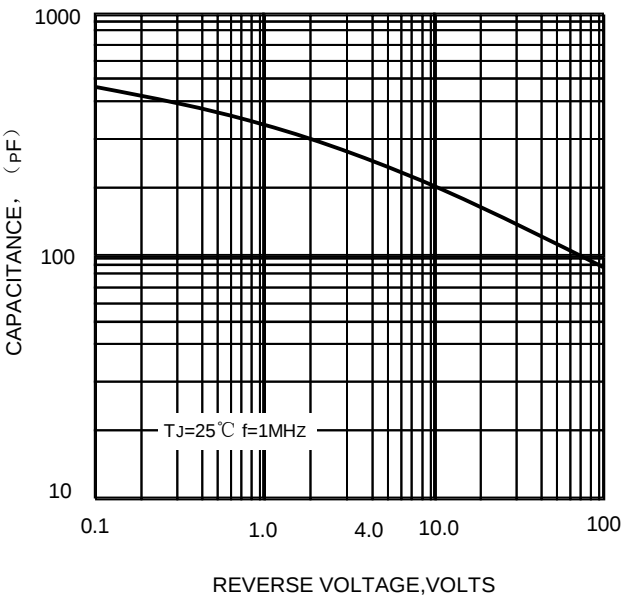


FIG.5-TYPICAL REVERSE CHARACTERISTICS

