

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 lowvoltage, high frequency inverters, free wheeling, and polarity protection applications. MECHANICAL DATA ●Case: Molded Plastic ●Polarity: Indicated by cathode band ●Weight: 0.002 ounces,0.064 grams		SMA Top View Dimensions: Width: .181(4.60) / .157(4.00) Height: .062(1.60) / .055(1.40) Right side: .114(2.90) / .098(2.50) Side View Dimensions: Total height: .103(2.62) / .079(2.00) Lead height: .060(1.52) / .030(0.76) Lead width: .008(.203) / .002(.051) Bottom width: .208(5.28) / .188(4.80) Top flange: .012(.305) / .006(.152) 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	SS12	SS13	SS14	SS15	SS16	SS18	SS110	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.										

FIG. 1 - FORWARD CURRENT DERATING CURVE

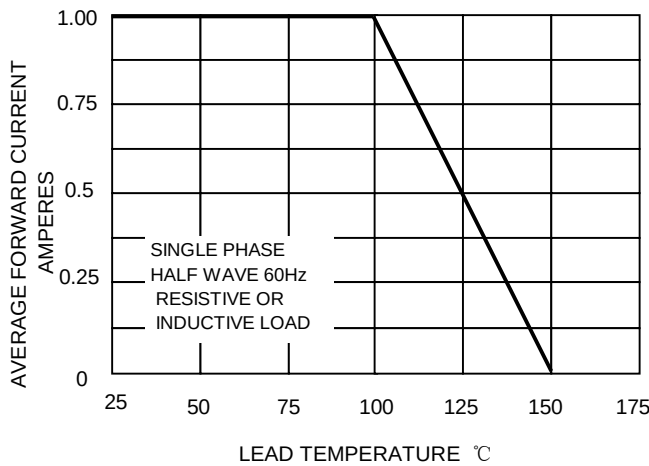


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

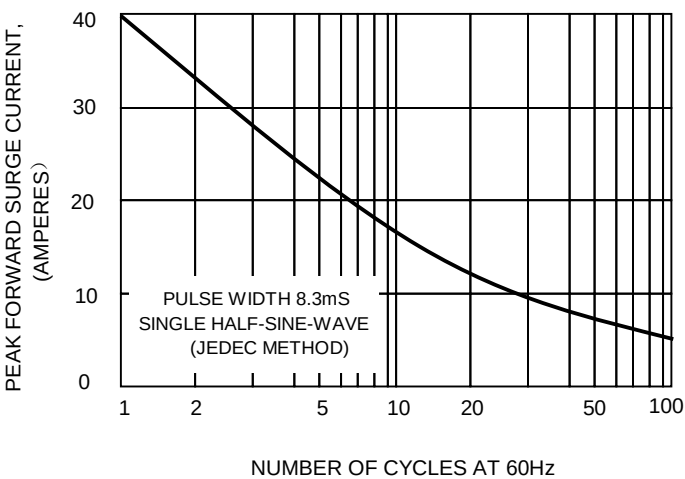


FIG.4-TYPICAL FORWARD CHARACTERISTICS

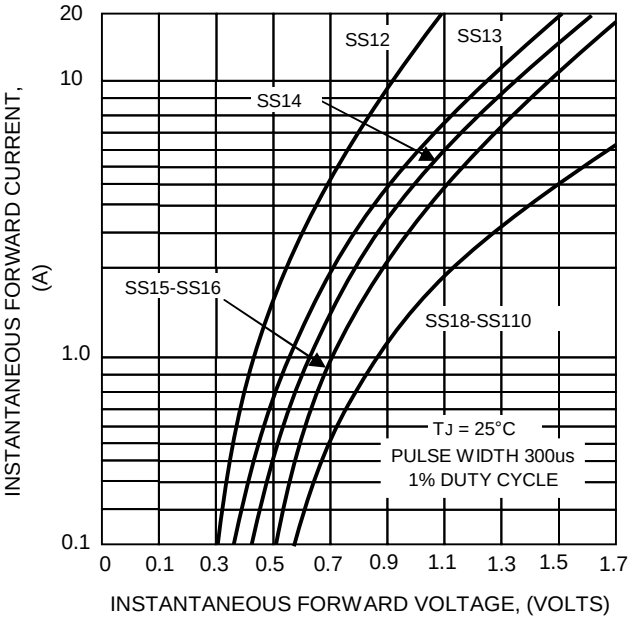


FIG.4-TYPICAL JUNCTION CAPACITANCE

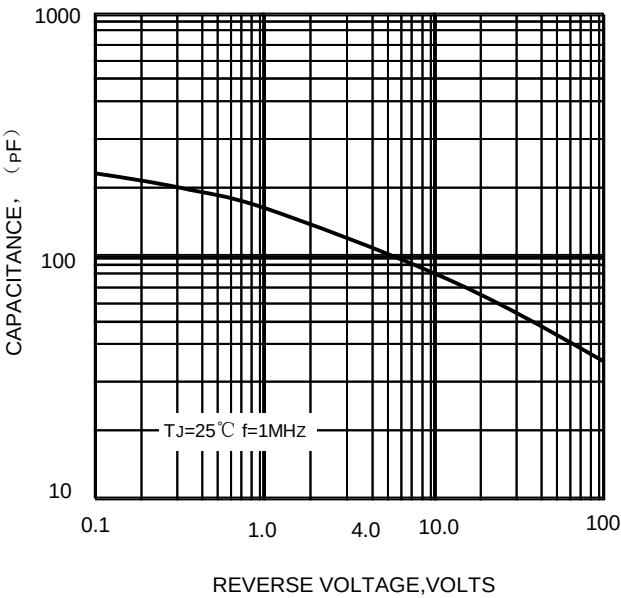


FIG.5-TYPICAL REVERSE CHARACTERISTICS

