



SS1020 THRU SS10100

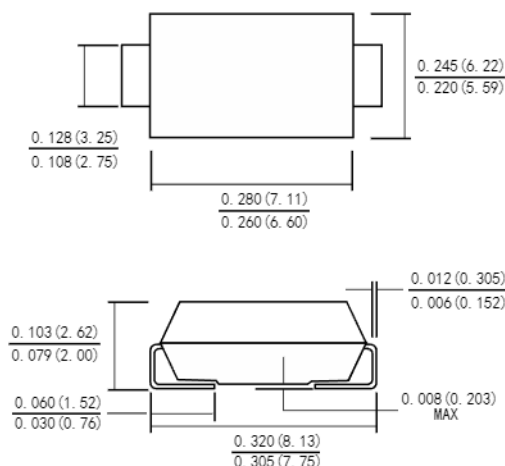
Surface Mount Schottky Rectifiers

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- For surface mount applications
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- Low profile package
- Built-in strain relief ,ideal for automated placement
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260 C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



SMC(DO-214AB)



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: JEDEC SMC(DO-214AB) molded plastic body
- Terminals: solder plated ,solderable per MIL-STD-750,method 2026
- Polarity: color band denotes cathode end
- Weight: 0.007ounce,0.21 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

		Symbols	SS 1020	SS 1030	SS 1045	SS 1050	SS 1060	SS 1080	SS 10100	Units	
Maximum repetitive peak reverse voltage		VRRM	20	30	40	50	60	80	100	Volts	
Maximum RMS voltage		VRMS	14	21	28	35	42	57	71	Volts	
Maximum DC blocking voltage		VDC	20	30	40	50	60	80	100	Volts	
Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1)		IAV)	10.0							Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method at rated Tj)		IFSM	150.0							Amps	
Maximum instantaneous forward voltage at 5.0 A(Note 1)		VF	0.55			0.75		0.80	0.85	Volts	
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	Ta =25℃	IR	1.5							mA	
	Tj =100℃		20		10						
Typical junction capacitance(Note 3)		CJ	500			400				PF	
Typical thermal resistance (Note 2)		RθJA RθJL	55.0 17.0								℃/W
Operating junction temperature range		TJ	-65 to+125			-65 to+150				℃	
Storage temperature range		TSTG	-65 to+150							℃	

- Notes: 1. Pulse test: 300μ s pulse width,1% duty cycle
2. P.C.B. mounted 0.55X0.55"(14X14mm) copper pad areas
3. Measured at 1MHz and reverse voltage of 4.0 volts



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FIG.1-FORWARD CURRENT DERATING CURVE

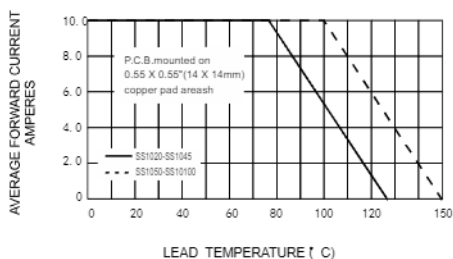


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

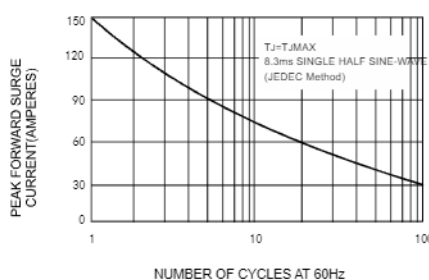


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

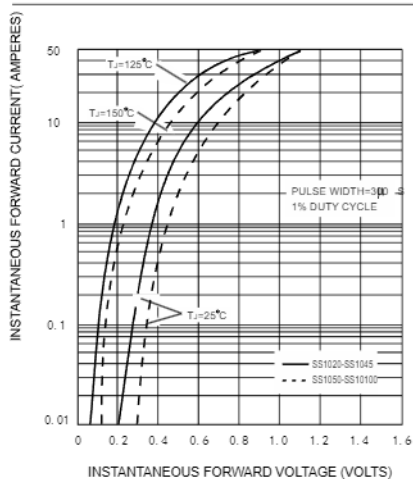


FIG.4-TYPICAL REVERSE CHARACTERISTICS

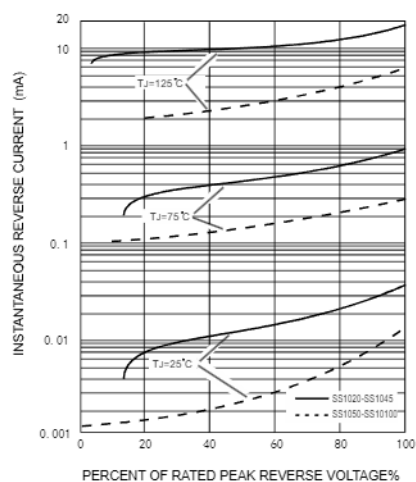


FIG.5-TYPICAL JUNCTION CAPACITANCE

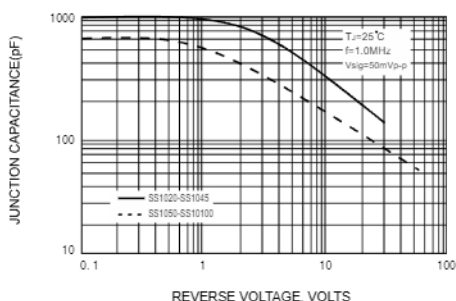


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

