

FEATURES

- Average Forward Current: $I_{F(AV)}=5A$
- Polarity: Color band denotes cathode



SMC

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SS52~SS520	SMC	SS5★	2000



★:From 2-10

MAXIMUM RATINGS ($T_a=25^{\circ}C$ unless otherwise noted)

Item	Symbol	Unit	Test Conditions	SS5							
				2	3	4	5	6	8	9	10
Repetitive Peak Reverse Voltage	V _{RRM}	V		20	30	40	50	60	80	90	100
MaximumRMS Voltage	V _{RMS}	V		14	21	28	35	42	56	63	70
Average Forward Current	I _{F(AV)}	A	60Hz Half-sine wave , Resistance load , FIG.1	5.0							
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz Half-sine wave , 1 cycle, Ta=25℃	150							
Junction Temperature	T _J	℃		-55~+125			-55~+150				
Storage Temperature	T _{STG}	℃		-55 ~ +150							

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}C$ unless otherwise specified)

Item	Symbol	Unit	Test Condition		SS5						
					2	3	4	5	6	8	9
Peak Forward Voltage	V _F	V	I _F =5.0A		0.55			0.70		0.85	
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	T _a =25℃	0.1				0.02		
	T _a =100℃			5				2			
Thermal Resistance(Typical)	R _{θJ-A}	℃/W	Between junction and ambient		60						
	R _{θJ-L}		Between junction and terminal		20						

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.27" x 0.27" (7.0 mm x 7.0 mm) copper pad areas

Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

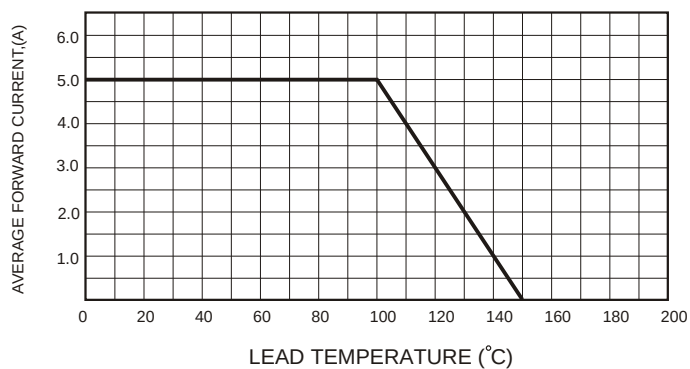


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

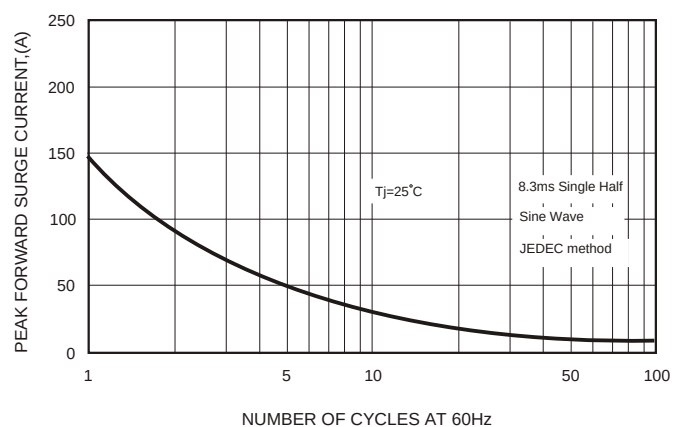


FIG.4-TYPICAL JUNCTION CAPACITANCE

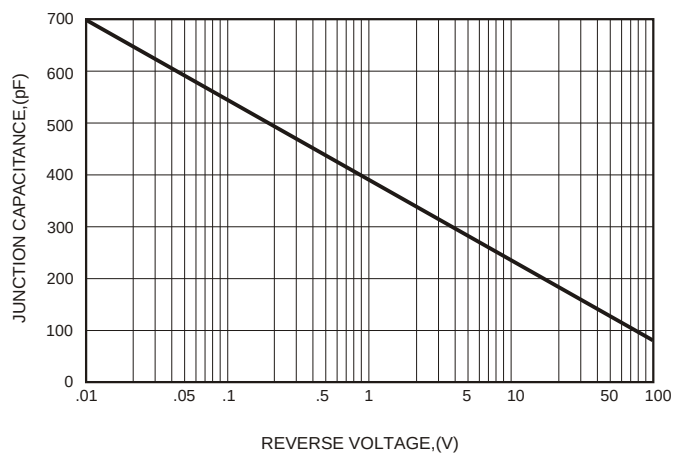


FIG.2-TYPICAL FORWARD CHARACTERISTICS

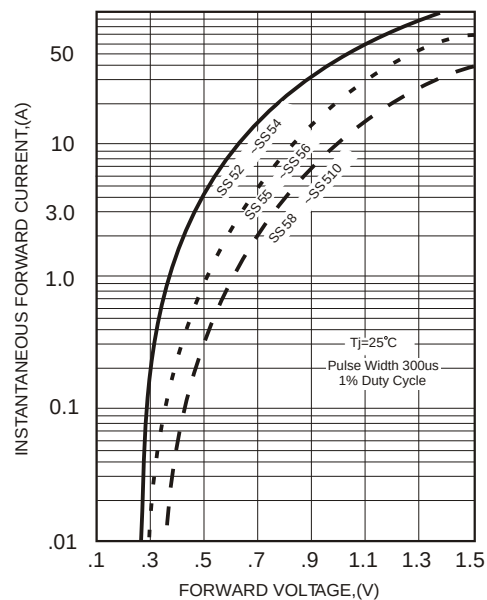
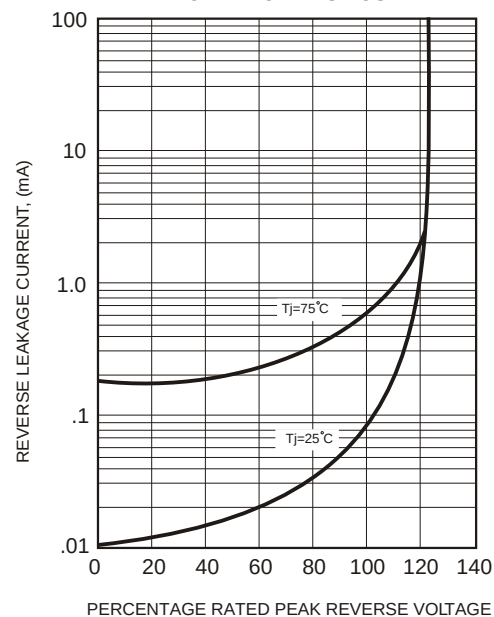
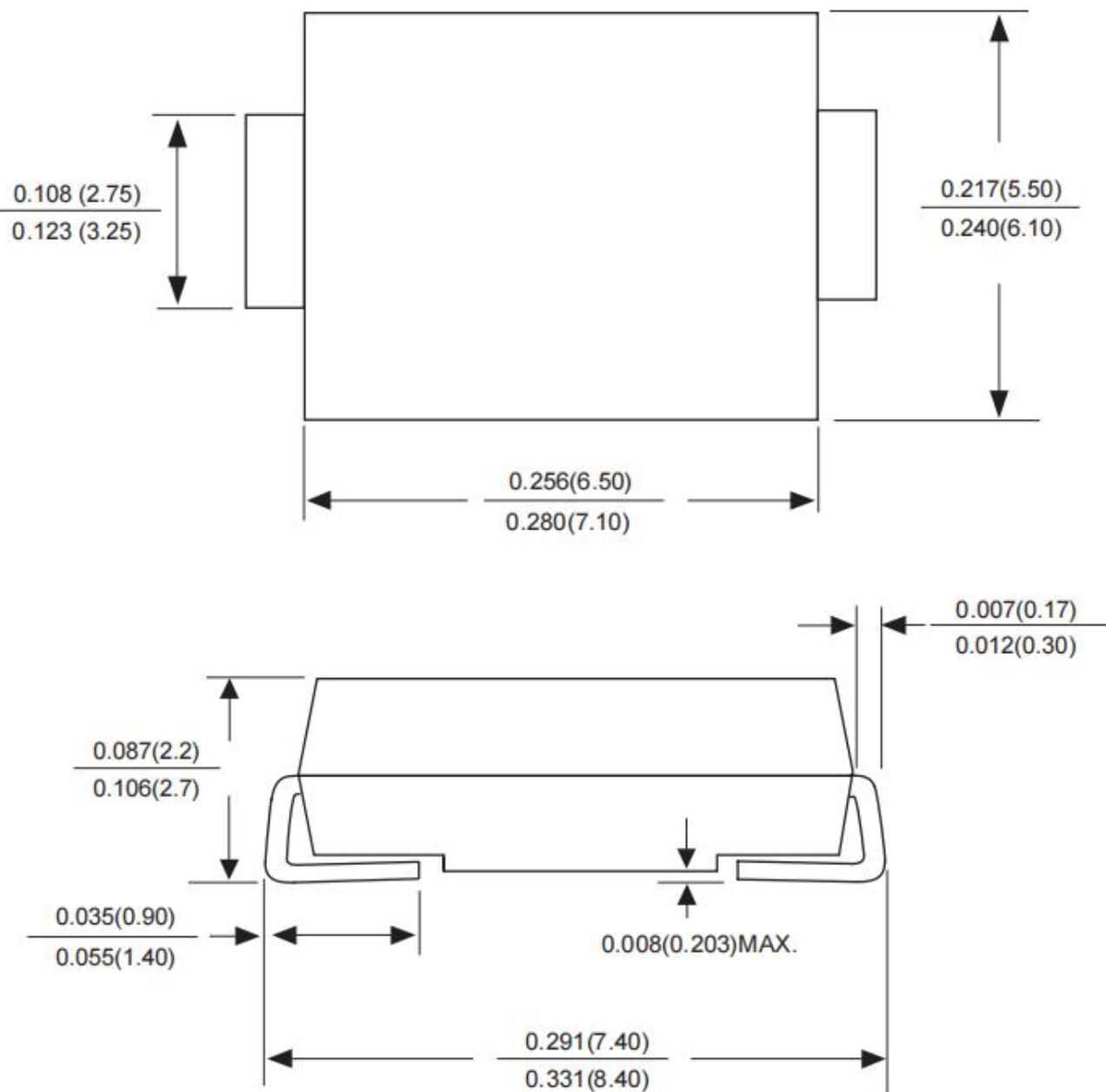


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



SMC Package Outline Dimensions



Dimensions in inches and (millimeters)