



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 (Ta=25 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						
Maximum RMS 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°C	150													
Junction Temperature	T_J	°C		-55~+125					-55~+150								
Storage Temperature	T_{STG}	°C		-55 ~ +150													

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

Item	Symbol	Unit	Test Condition	SS5									
				2	3	4	5	6	8	9	10		
Peak Forward Voltage	V_F	V	$I_F=5.0A$	0.55			0.70			0.85			
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	$T_a=25^\circ C$			0.1			0.02			
	I_{RRM2}			$T_a=100^\circ C$			5			2			
Thermal Resistance(Typical)	$R_{\theta J-A}$	°C/W	Between junction and ambient				60						
	$R_{\theta J-L}$		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

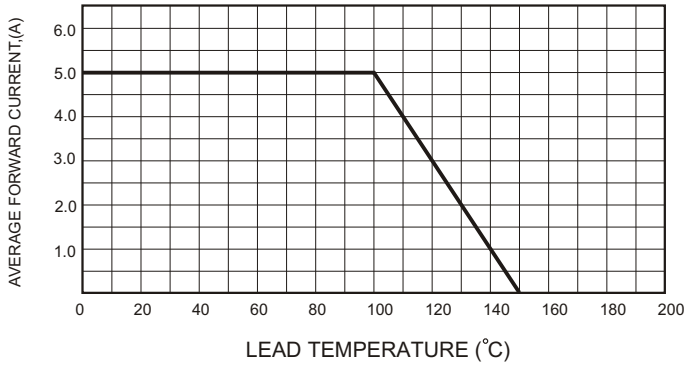


FIG.2-TYPICAL FORWARD CHARACTERISTICS

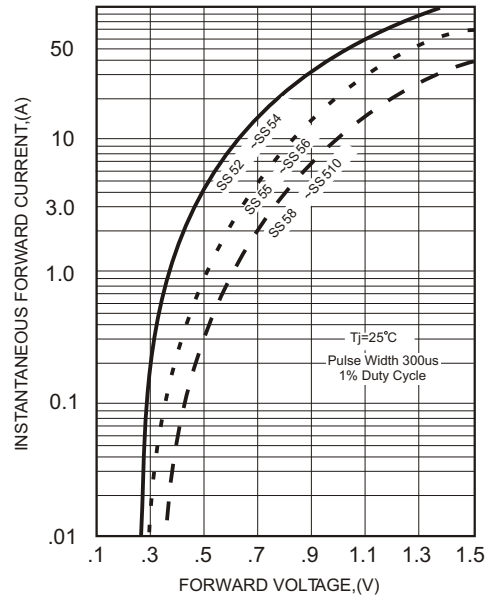


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

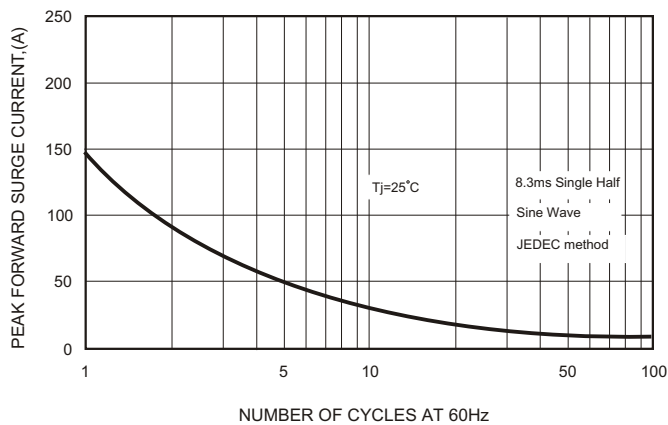


FIG.4-TYPICAL JUNCTION CAPACITANCE

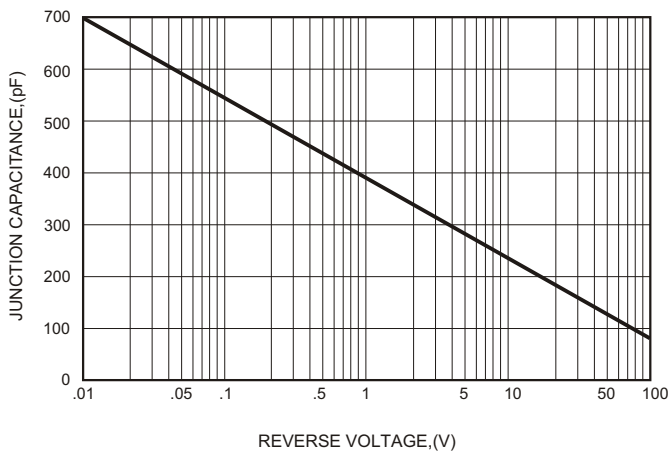
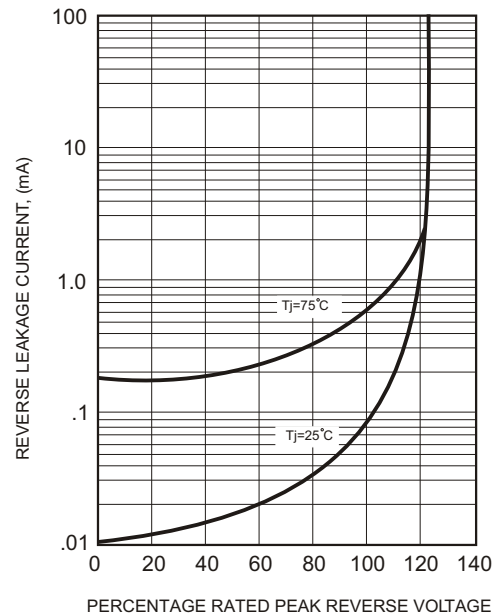
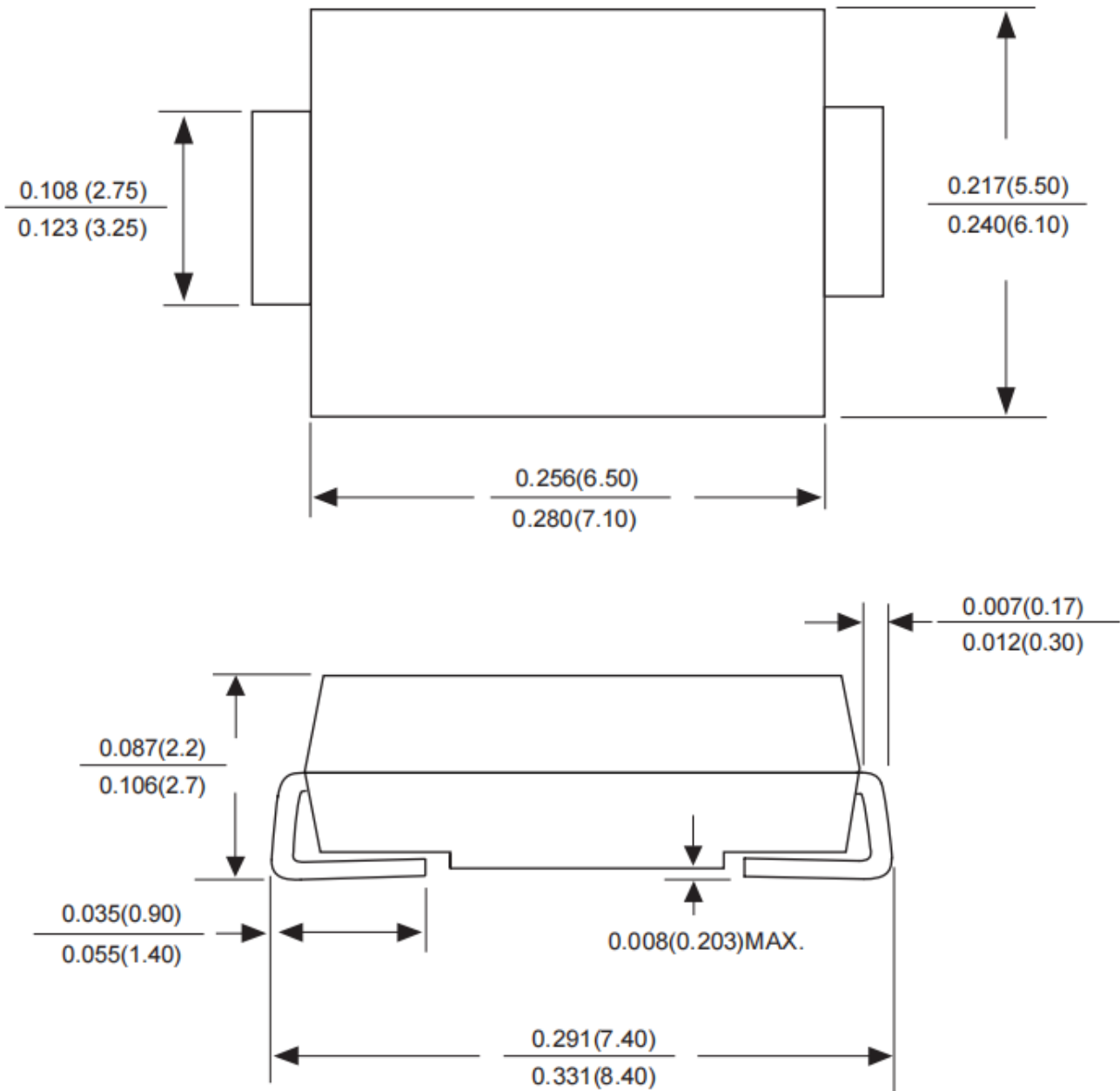


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





SMC Package Outline Dimensions



Dimensions in inches and (millimeters)



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