



### 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

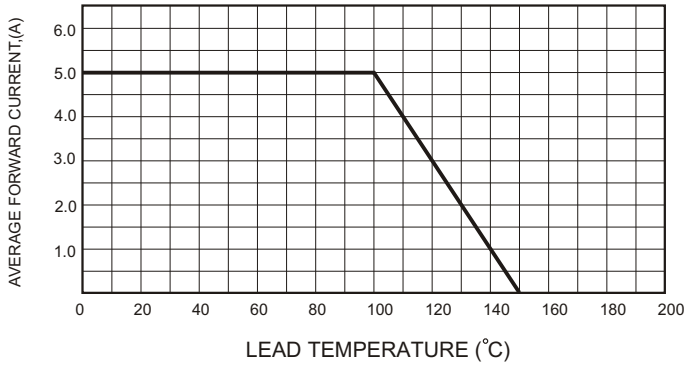


FIG.2-TYPICAL FORWARD CHARACTERISTICS

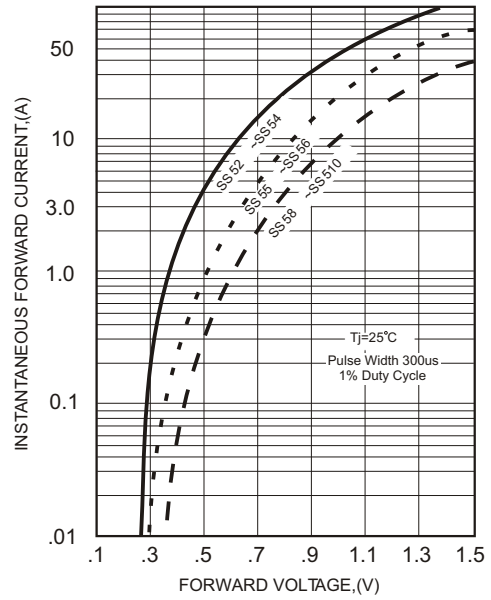


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

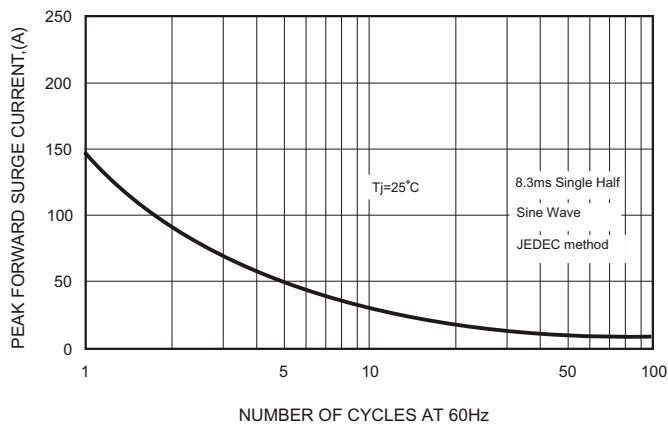


FIG.4-TYPICAL JUNCTION CAPACITANCE

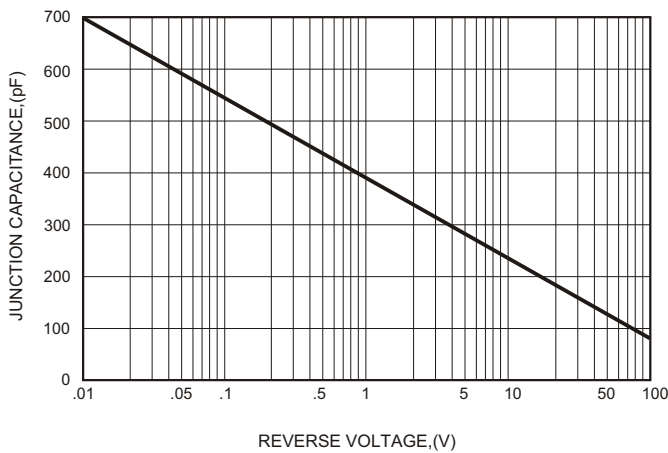
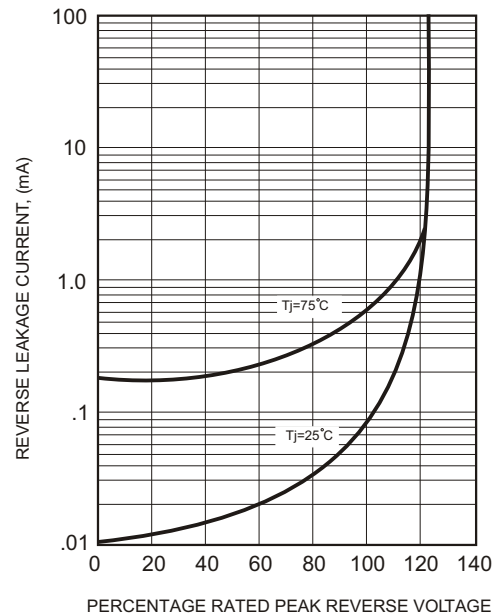
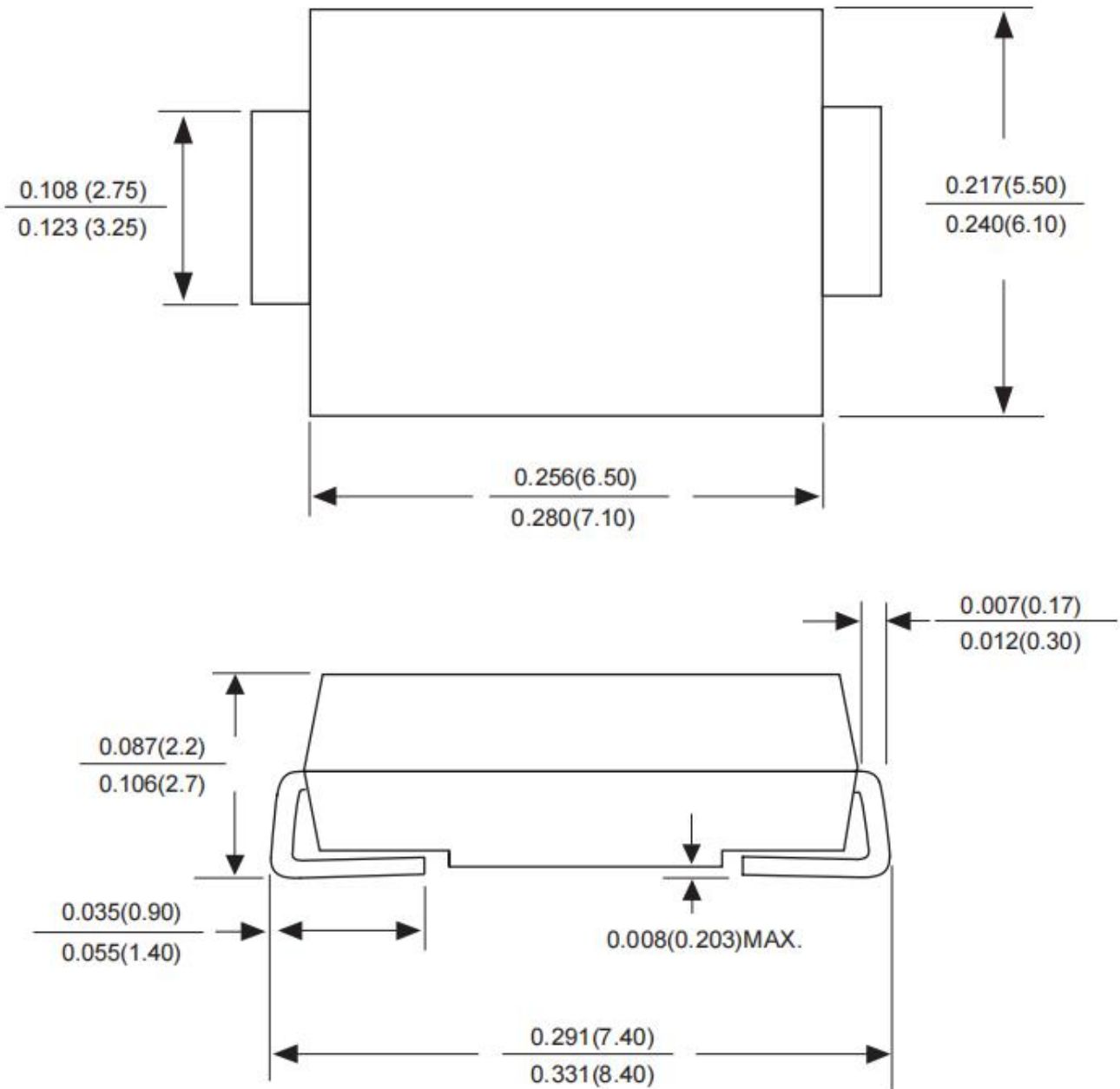


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





SMC Package Outline Dimensions



Dimensions in inches and (millimeters)



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