

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)

14	Symbol	Unit	Test Conditions	SS5								
Item				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)}	А	60Hz Half-sine wave, Resistance load, FIG.1	5.0								
Surge(Non-repetitive)Forward Current	I _{FSM}	А	60Hz Half-sine wave, 1 cycle, Ta=25°C	150								
Junction Temperature	TJ	$^{\circ}$		-5	-55~+125 -55~+150							
Storage Temperature	T _{STG}	$^{\circ}\!\mathbb{C}$		-55 ~ + 150								

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

14	0	11	Test Condition		SS5								
Item	Symbol	Unit			2	3	4	5	6	8	9	10	
Peak Forward Voltage	V_{F}	V	l _F =		0.55	5 0.70			0.85				
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	T _a =25°C	0.1					0.02			
	I _{RRM2}	IIIA		T _a =100°C			5						
Thermal	$R_{\theta J-A}$	℃/	Between junction and ambient			60							
Resistance(Typical)	$R_{\theta J-L}$	W	Between junct	tion 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

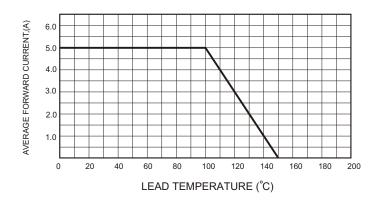


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

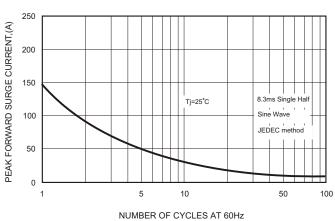


FIG.4-TYPICAL JUNCTION CAPACITANCE

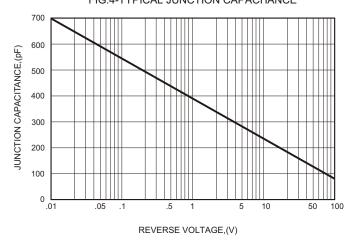


FIG.2-TYPICAL FORWARD

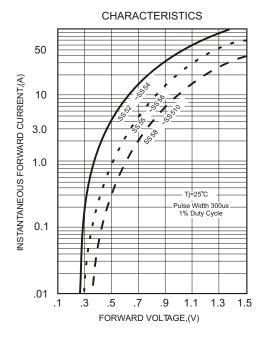
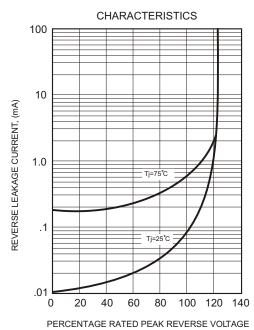
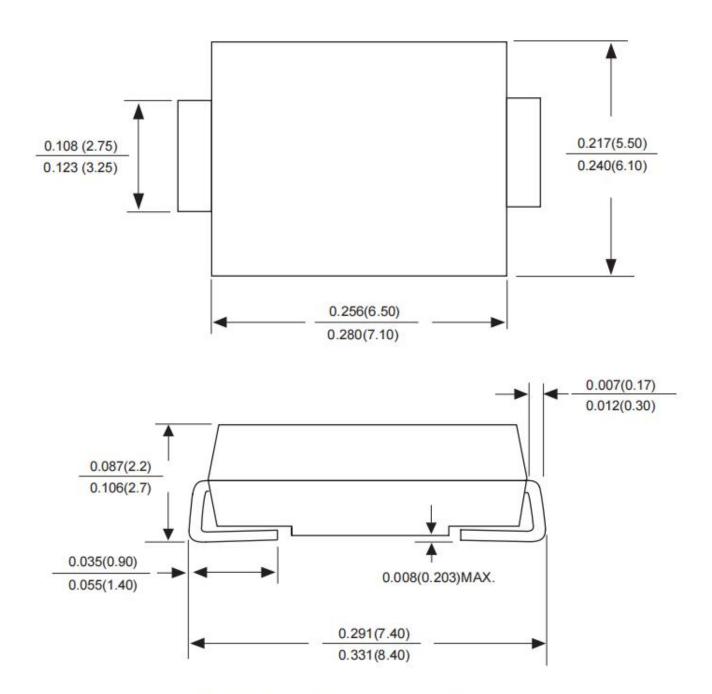


FIG.5 - TYPICAL REVERSE





SMC Package Outline Dimensions



Dimensions in inches and (millimeters)



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