

## **FEATURES**

- Average Forward Current:I<sub>F(AV)</sub>=1A
- Polarity: Color band denotes cathode



# **Package Marking and Ordering Information**

Product ID	Pack	Marking	Qty(PCS)				
SS12~SS120	SMA	SS1*	2000				



**★**:From2-20

# MAXIMUM RATINGS (Ta=25 unless otherwise noted)

lt a	011	Unit	Test Conditions		SS1										
Item	Symbol				3	4	5	6	8	10	15	20			
Repetitive Peak Reverse Voltage	$V_{RRM}$	V		20	30	40	50	60	80	100	150	200			
Maximum RMS Voltage	V <sub>RMS</sub>	٧		14	21	28	35	42	56	70	105	140			
Average Forward Current	I <sub>F(AV)</sub>	А	60Hz Half-sine wave, Resistance load, FIG.1	1.0											
Surge(Non-repetitive)Forward Current	I <sub>FSM</sub>	А	60Hz Half-sine wave, 1 cycle,Ta=25℃	30											
Junction Temperature	TJ	$^{\circ}$		-55~+125 -55~+150											
Storage Temperature	T <sub>STG</sub>	$^{\circ}$		-55 ~ <b>+</b> 150											

## ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

			Tank Oam distan			SS1									
Item	Symbol	Unit	Test Condition		2	3	4	5	6	8	10	15	20		
Peak Forward Voltage	V <sub>F</sub>	٧	I <sub>F</sub> =		0.55		0.70		0.85		0.95				
Peak Reverse Current	I <sub>RRM1</sub>	mA	V <sub>RM</sub> =V <sub>RRM</sub>	T <sub>a</sub> =25°C		0.5					0.1				
	I <sub>RRM2</sub>	ША		T <sub>a</sub> =100°C			10			5.0					
Thermal	$R_{\theta J-A}$	°C/	Between junct	65											
Resistance(Typical)	R <sub>θJ-L</sub>	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 0.2"  $\times$  0.2" (5.0 mm  $\times$  5.0 mm) copper pad areas

## **Typical Characteristics**

FIG.1: FORWARD CURRENT DERATING CURVE

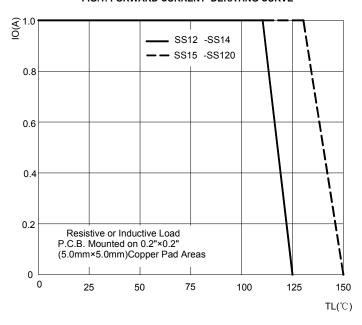


FIG2:Surge Forward Current Capadility

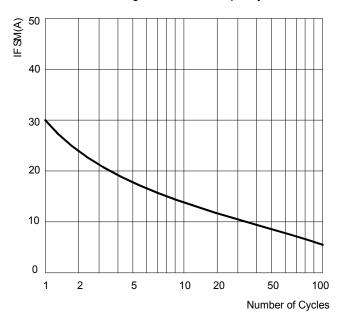


FIG.3: TYPICAL FORWARD CHARACTERISTICS

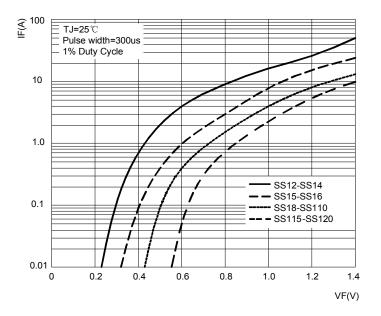
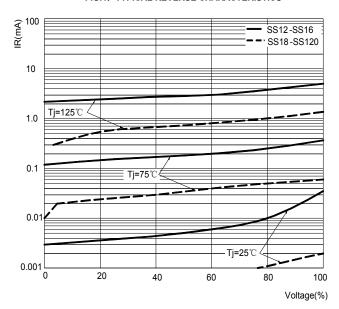
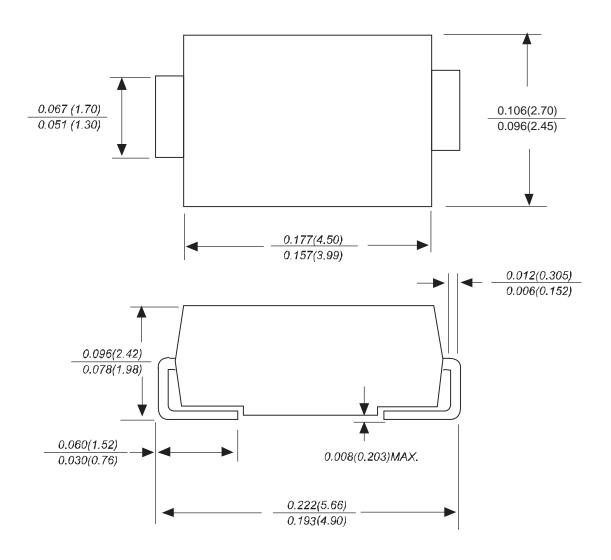


FIG.4: TYPICAL REVERSE CHARACTERISTICS



# **SMA Package Outline Dimensions**



Dimensions in inches and (millimeters)



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