

### **Features**

- Average Forward Current: I<sub>F(AV)</sub>=5A
- Polarity: Color band denotes cathode

# **Package Marking and Ordering Information**

Product ID	Pack	Marking	Qty(PCS)			
SS52~SS520	SMA (DO-214AC)	SS5 <b>*</b>	2000			





SMA (DO-214AC)



## Maximum Ratings (Ta=25°C unless otherwise noted)

16	Symbol	Unit		SS5								
ltem			Test Conditions	2	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	VRMS	V		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	5.0								
Surge(Non-repetitive)Forward Current	I <sub>FSM</sub>	А	60Hz Half-sine wave, 1 cycle,Ta=25℃	150								
Junction Temperature	TJ	$^{\circ}$		-5	-55~+125 -55~+150							
Storage Temperature	T <sub>STG</sub>	$^{\circ}$		-55 ~ +150								

Electrcal Charcteristics (Ta=25 unless otherwise specified)

160	0	1114	Test Condition		SS5									
Item	Symbol	Unit			2	3	4	5	6	8	10	15	20	
Peak Forward Voltage	$V_{F}$	٧	l <sub>F</sub> :		0.55	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				0.2				
	I <sub>RRM2</sub>	ш	VRM=VRRM	T <sub>a</sub> =100°C		20				10				
Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/	Between junc		55									
	R <sub>θJ-L</sub>	W	Between junc	17										

#### Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas



## **Typical Characteristics**

#### FIG.1: FORWARD CURRENT DERATING CURVE

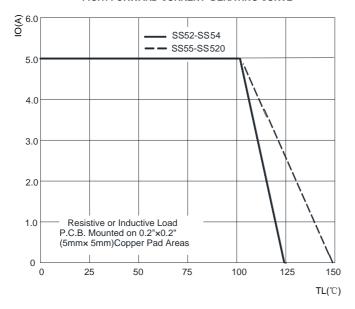


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

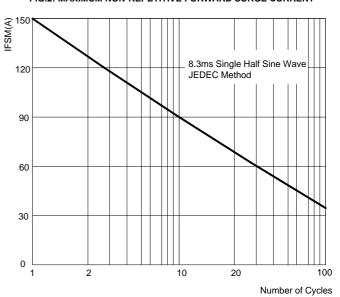


FIG.3: TYPICAL FORWARD CHARACTERISTICS

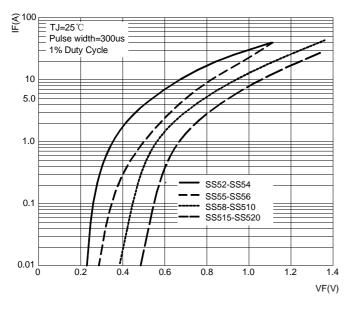
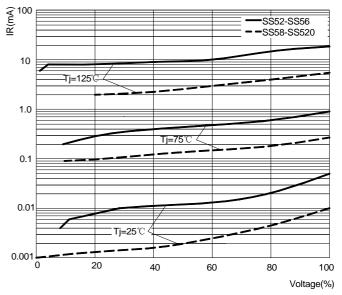
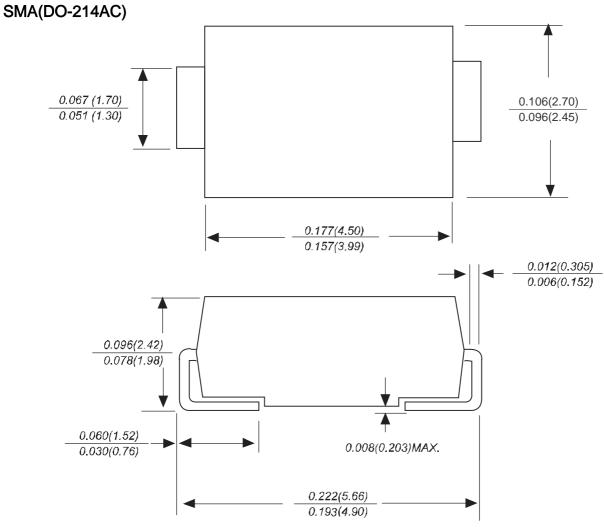


FIG.4: TYPICAL REVERSE CHARACTERISTICS



# Package Outline Dimensions



Dimensions in inches and (millimeters)



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