

#### **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	SMB (DO-214AA)	SS5x	3000			





SMB (DO-214AA)



# Maximum Ratings (Ta=25 unless otherwise noted)

	Symbol	Unit		SS5									
Item			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	V <sub>RMS</sub>	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˚C	150									
Junction Temperature	TJ	$^{\circ}$		-55~+125 -55~+150									
Storage Temperature	T <sub>STG</sub>	$^{\circ}$		-55 ~ <b>+</b> 150									

### Electrcal Charcteristics (Ta=25 unless otherwise specified)

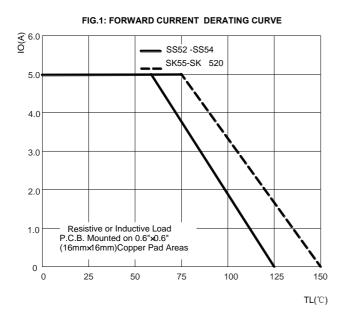
lt.	Symbol Unit		Took Consulting			SS5									
Item	Symbol	Unit	Test Condition		2	3	4	5	6	8	10	15	20		
Peak Forward Voltage	$V_{F}$	٧	I <sub>F</sub> =		0.55		0.70		0.85		0.95				
Peak Reverse Current	I <sub>RRM1</sub>	mΛ	V <sub>RM</sub> =V <sub>RRM</sub>	T <sub>a</sub> =25°C		0.5				0.1					
	I <sub>RRM2</sub>	mA		T <sub>a</sub> =100°C		20				10					
Thermal	$R_{\theta J-A}$	°C/	Between junct	60											
	R <sub>θJ-L</sub>	W	Between junct	tion and terminal	20										

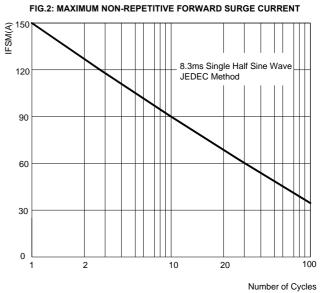
#### Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm) copper pad areas

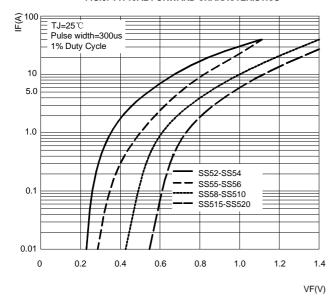


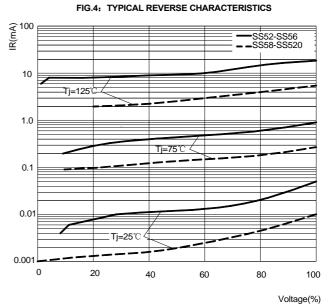
## **Typical Characteristics**





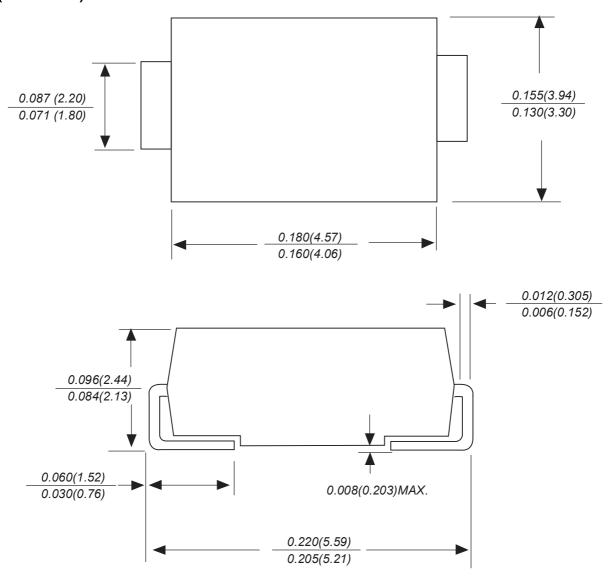








# Package Outline Dimensions SMB(DO-214AA)



Dimensions in inches and (millimeters)



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