

Features

- Average Forward Current: $I_{F(AV)}=5A$
- Polarity: Color band denotes cathode



SMB
(DO-214AA)



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SS52B~SS520B	SMB (DO-214AA)	SS5x	3000

x: From 2-20

Maximum Ratings ($T_a=25^{\circ}C$ unless otherwise noted)

Item	Symbol	Unit	Test Conditions	SS5								
				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
MaximumRMS Voltage	V _{RMS}	V		14	21	28	35	42	56	70	105	140
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℃	150								
Junction T emperature	T _J	℃		-55~+125			-55~+150					
Storage Temperature	T _{STG}	℃		-55 ~ +150								

Electrical Characteristics ($T_a=25^{\circ}C$ unless otherwise specified)

Item	Symbol	Unit	Test Condition	SS5								
				2	3	4	5	6	8	10	15	20
Peak Forward Voltage	V _F	V	I _F =5.0A		0.55		0.70		0.85		0.95	
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	Ta=25℃	0.5				0.1			
	Ta=100℃			20				10				
Thermal Resistance(Typical)	R _{θJ-A}	℃/ W	Between junction and ambient		60							
	R _{θJ-L}		Between junction and terminal		20							

Notes:

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

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

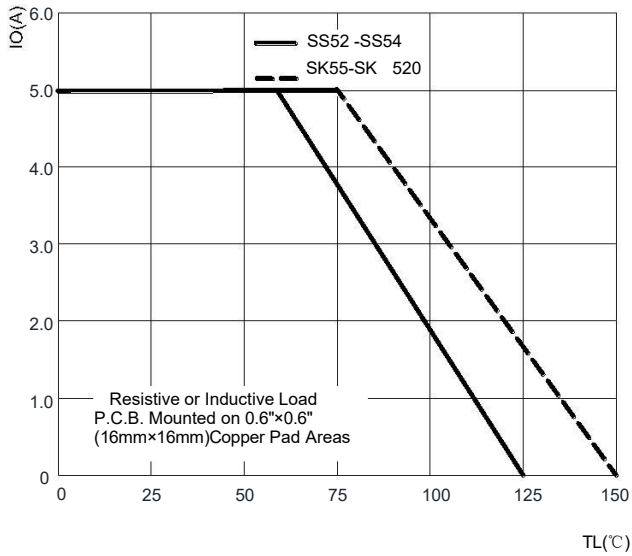


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

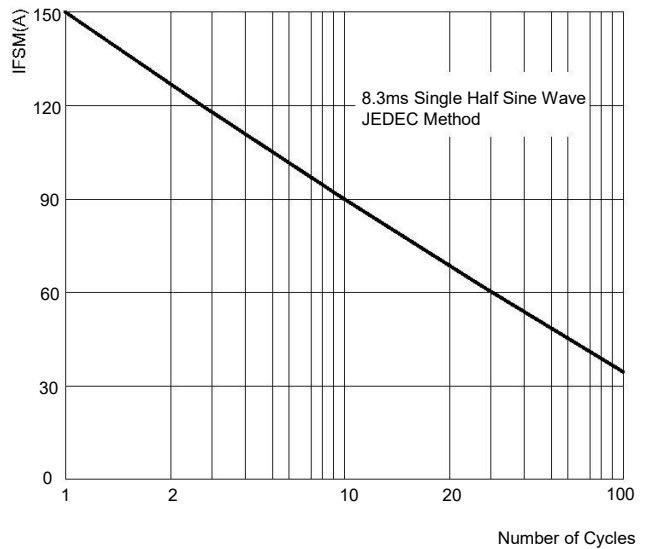


FIG.3: TYPICAL FORWARD CHARACTERISTICS

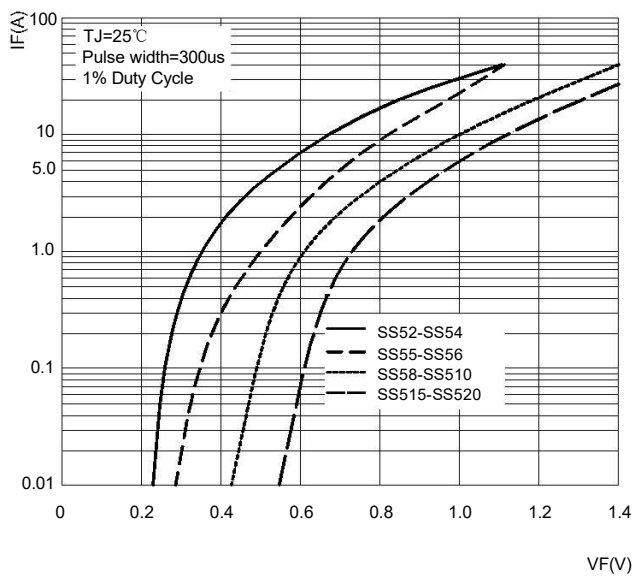
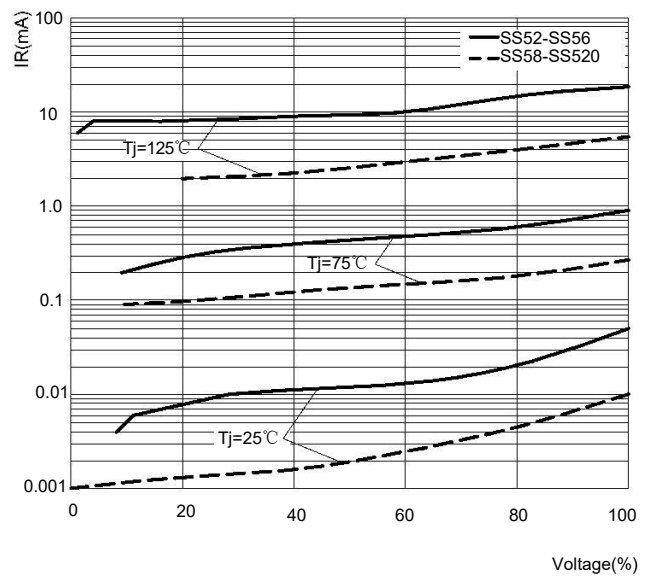
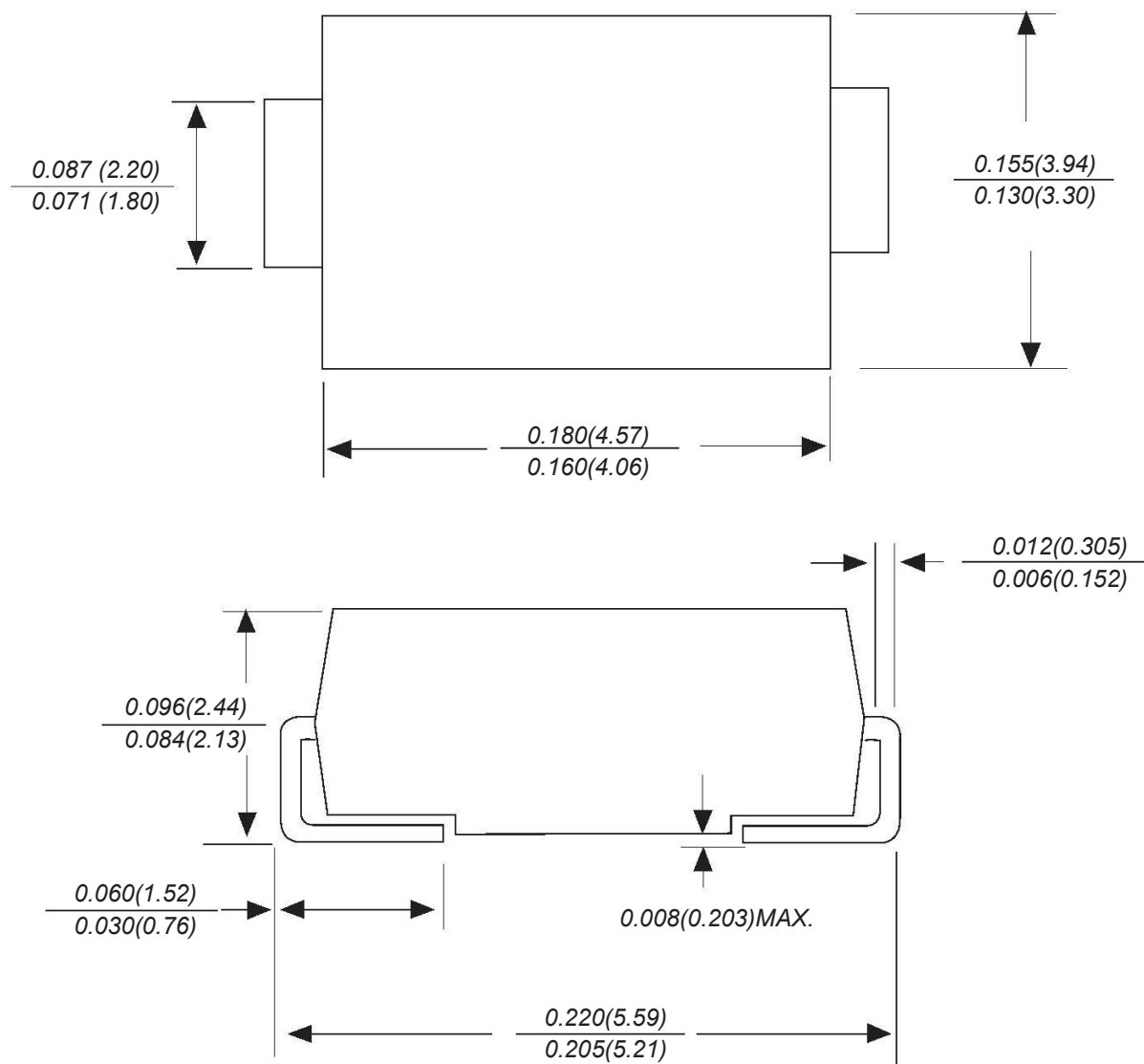


FIG.4: TYPICAL REVERSE CHARACTERISTICS



Package Outline Dimensions

SMB(DO-214AA)



Dimensions in inches and (millimeters)

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