SS52B~SS520B
SCHOTTKY RECTIFIER DIODES

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 (Ta=25℃ unless otherwise noted)

Item	Symbol	Unit	Test Conditions	SS5								
				2B	3B	4B	5B	6B	8B	10B	15B	20B
Repetitive Peak Reverse Voltage	V_{RRM}	V		20	30	40	50	60	80	100	150	200
Maximum RMS 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 Temperature	T_J	℃		-55~+125				-55~+150				
Storage Temperature	T_{STG}	℃		-55 ~ +150								

Electrcal Charcteristics (Ta=25℃unless otherwise specified)

Item	Symbol	Unit	Test Condition		SS5								
					2B	3B	4B	5B	6B	8B	10B	15B	20B
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			
	I_{RRM2}			Ta=100℃	20					10			
Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/W	Between junction and ambient		60								
	$R_{\theta J-L}$		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) copper pad areas

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

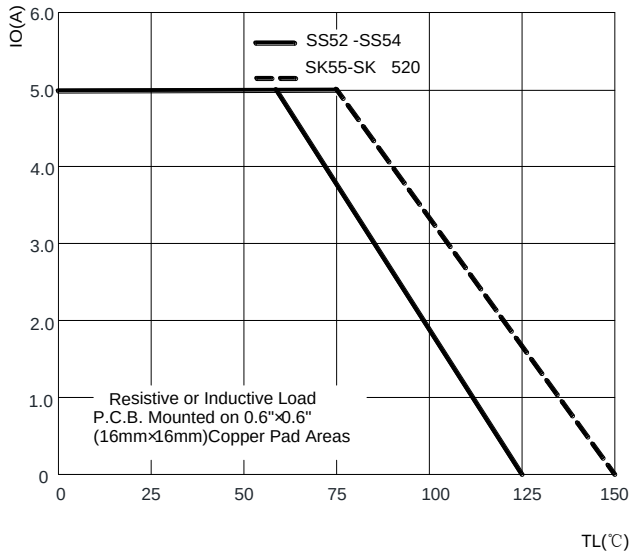


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

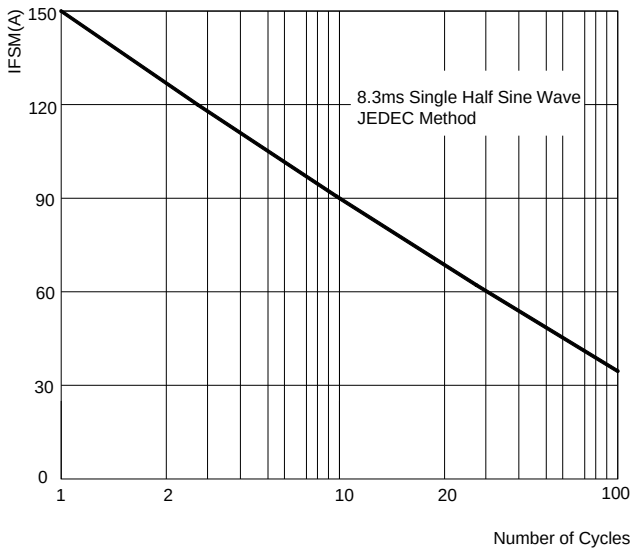


FIG.3: TYPICAL FORWARD CHARACTERISTICS

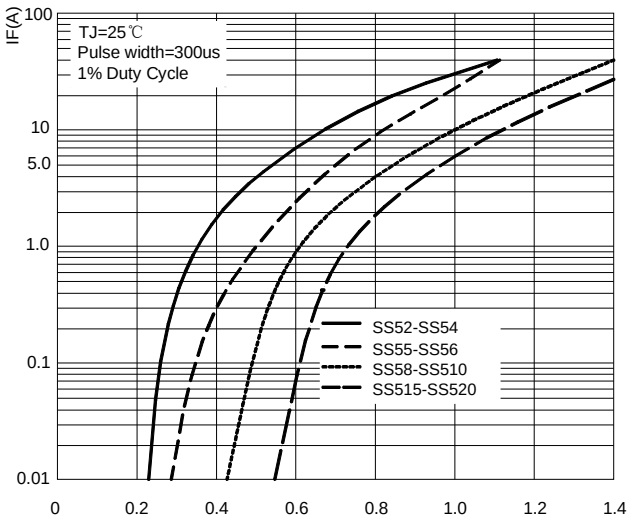
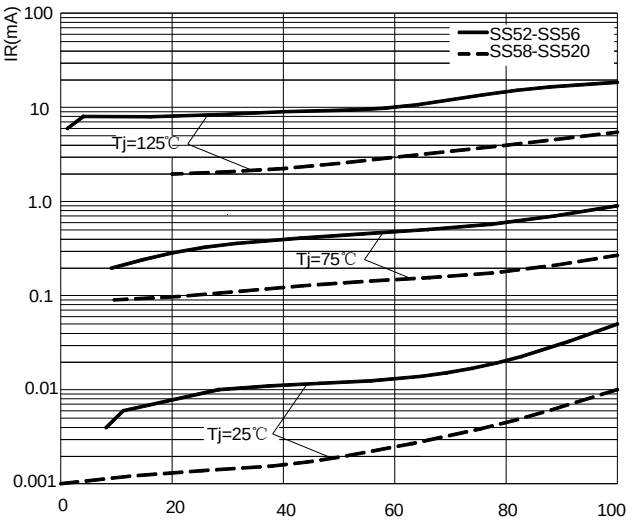
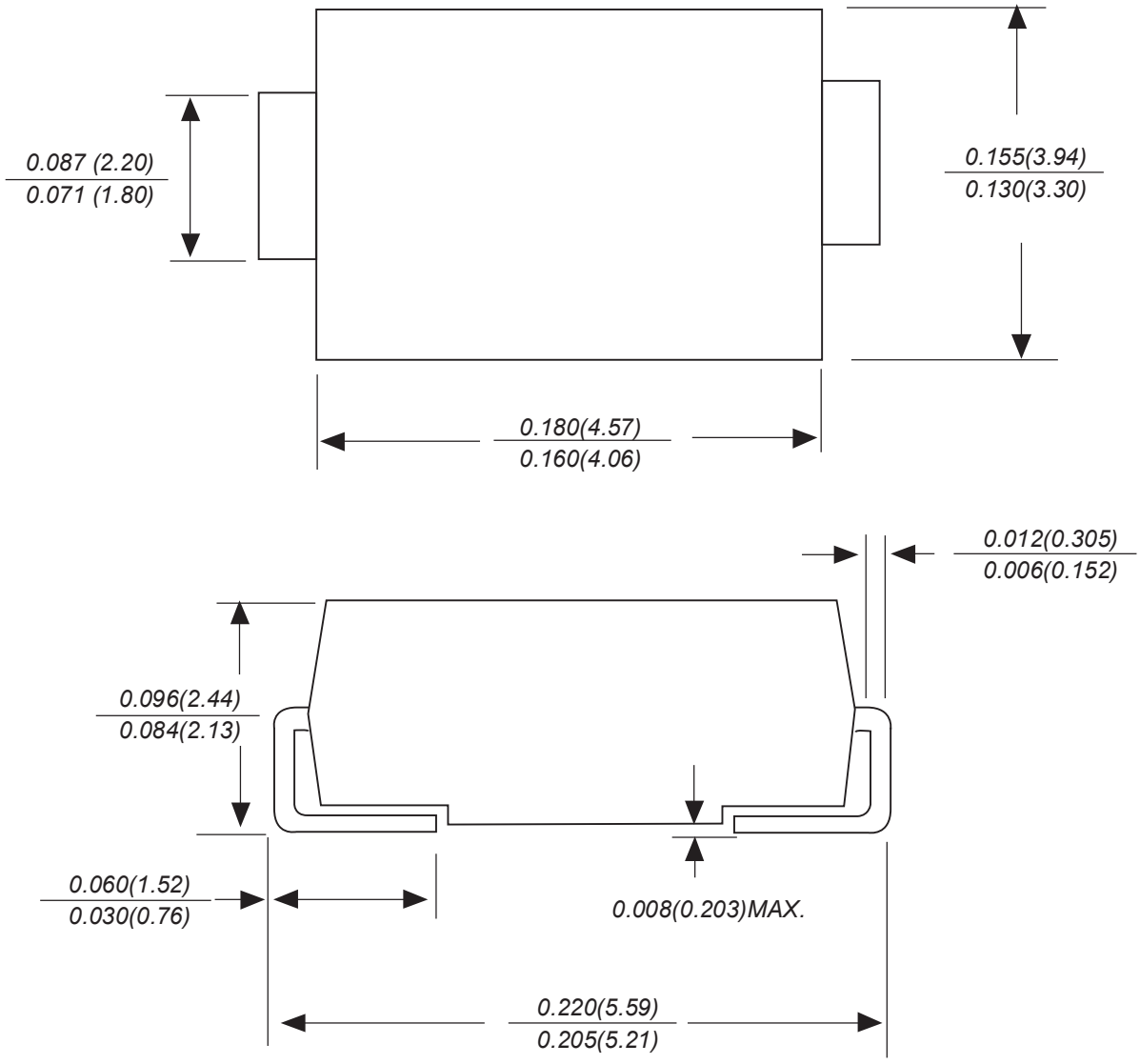


FIG.4：TYPICAL REVERSE CHARACTERISTICS



Package Outline Dimensions

SMB(DO-214AA)



Dimensions in inches and (millimeters)

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