



Features

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

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SS5100B~ SS5200B	SMB	SS5x	3000

x: From 10-20



SMB



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

Item	Symbol	Unit	Test Conditions	SS5		
				100B	150B	200B
Repetitive Peak Reverse Voltage	V _{RRM}	V		100	150	200
Maximum RMS Voltage	V _{RMS}	V		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 C	150		
Junction Temperature	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		
					100B	150B	200B
Peak Forward Voltage	V _F	V	I _F =5.0A		0.85	0.95	
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	T _a =25℃	0.1		
	I _{RRM2}			T _a =100℃	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) copper pad areas



Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

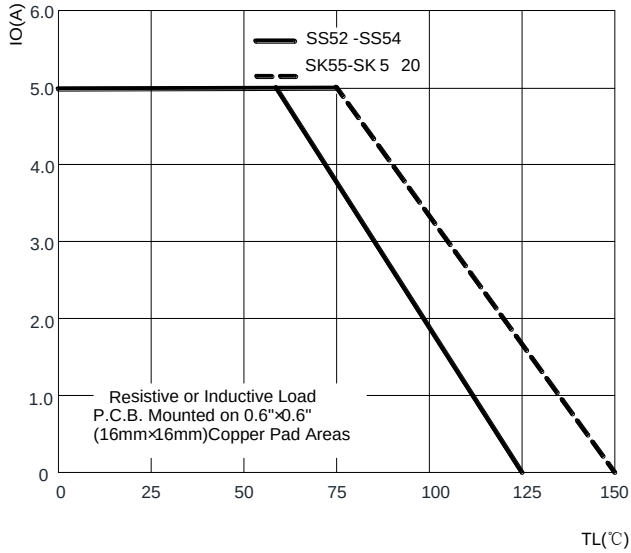


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

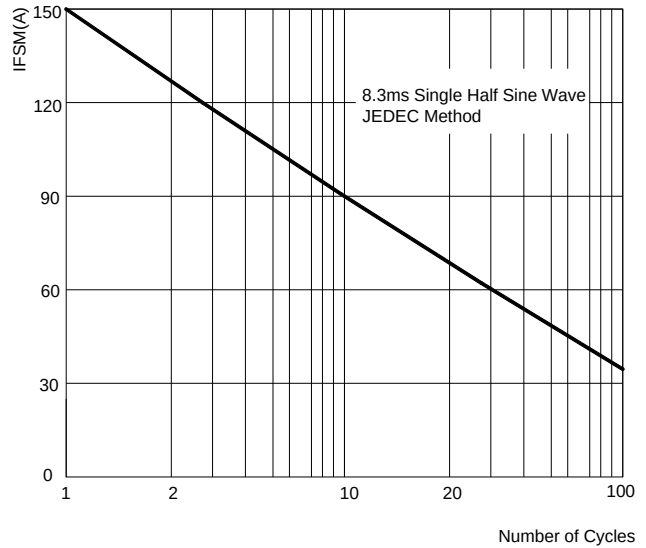


FIG.3: TYPICAL FORWARD CHARACTERISTICS

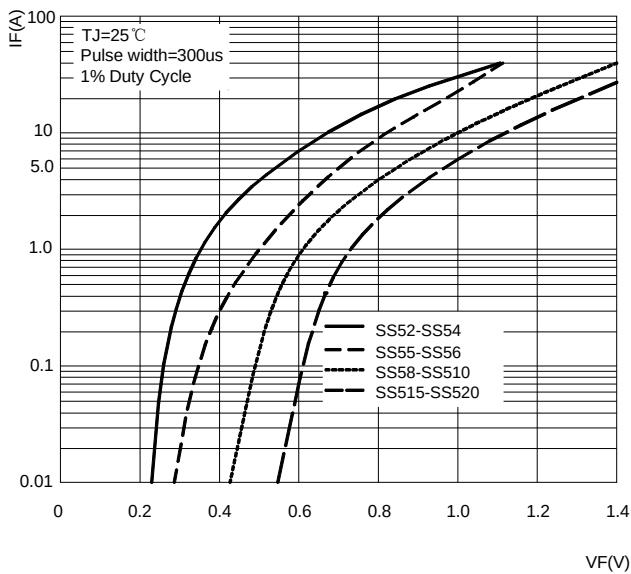
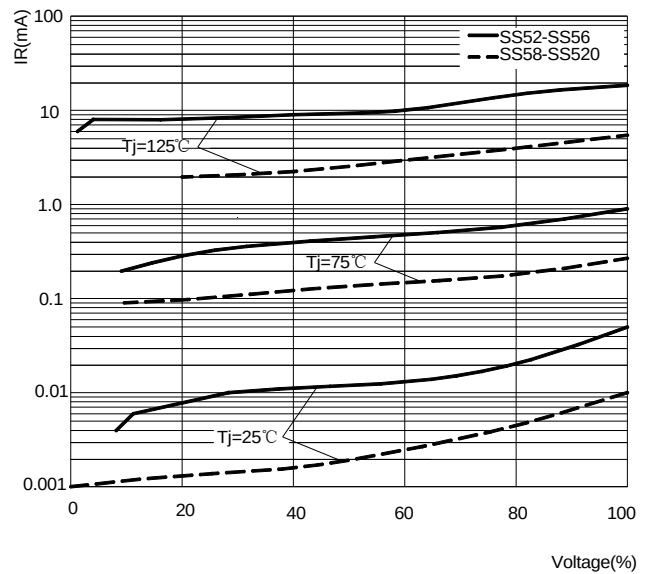
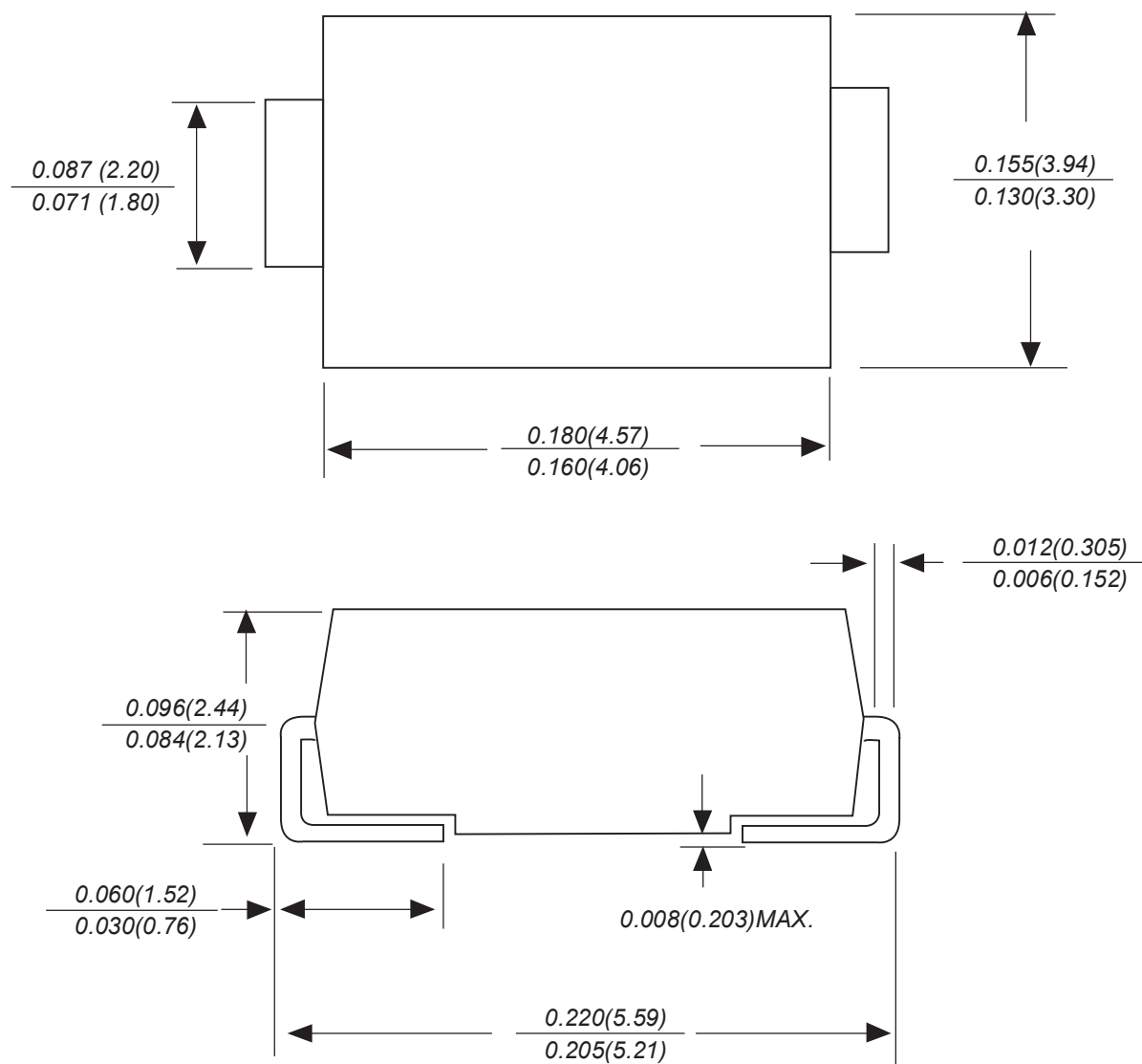


FIG.4: TYPICAL REVERSE CHARACTERISTICS





SMB Package Outline Dimensions



Dimensions in inches and (millimeters)



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