



Features

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



SMB



x: From 10-20

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SS5100~ SS5200	SMB	SS5x	3000

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

Item	Symbol	Unit	Test Conditions	SS5		
				100	150	200
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	°C		-55~+125	-55~+150	
Storage Temperature	T_{STG}	°C		-55 ~ +150		

Electrical Characteristics(Ta=25 °C unless otherwise specified)

Item	Symbol	Unit	Test Condition	SS5				
				100	150	200		
Peak Forward Voltage	V_F	V	$I_F=5.0A$	0.85	0.95			
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	0.1				
	I_{RRM2}			10				
Thermal Resistance(Typical)	$R_{\theta J-A}$	°C/ 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

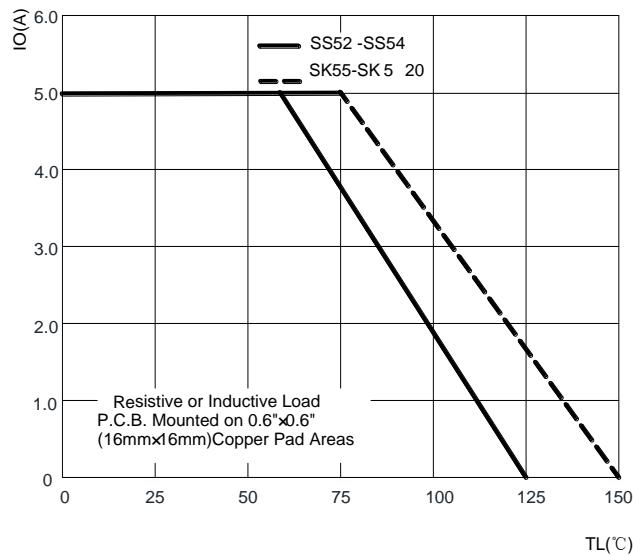


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

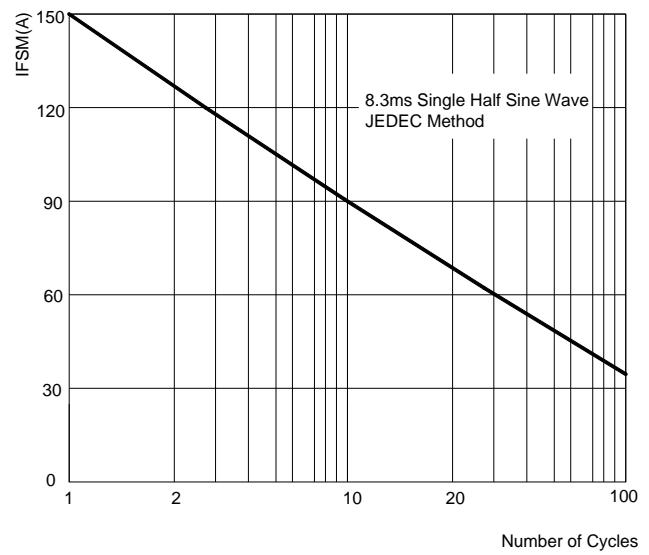


FIG.3: TYPICAL FORWARD CHARACTERISTICS

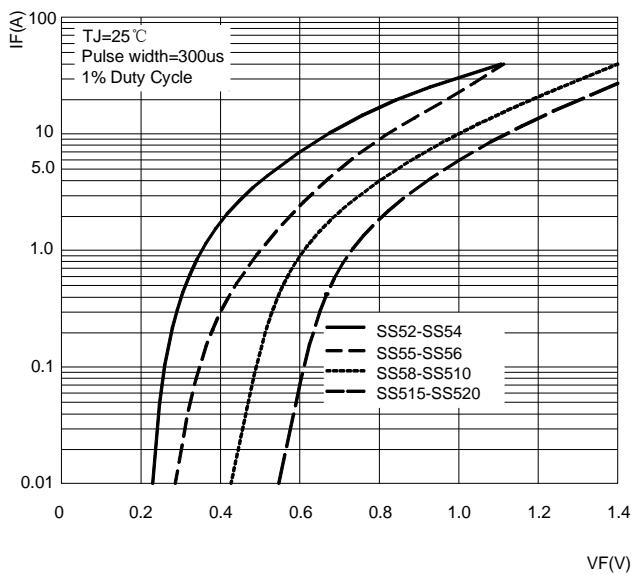
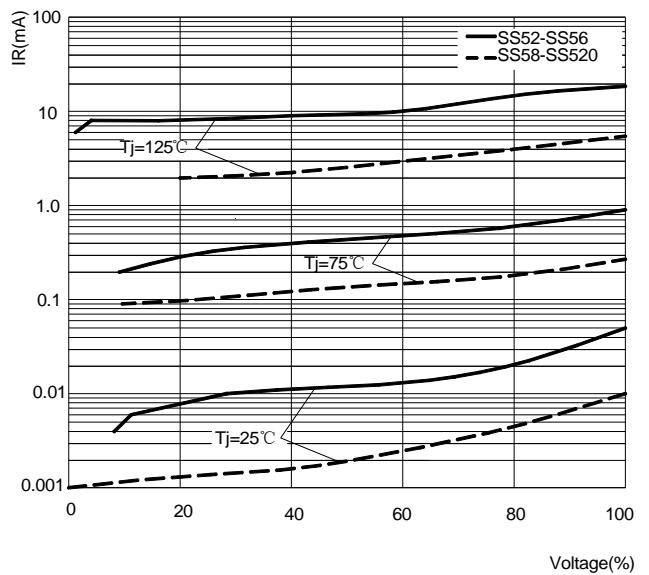
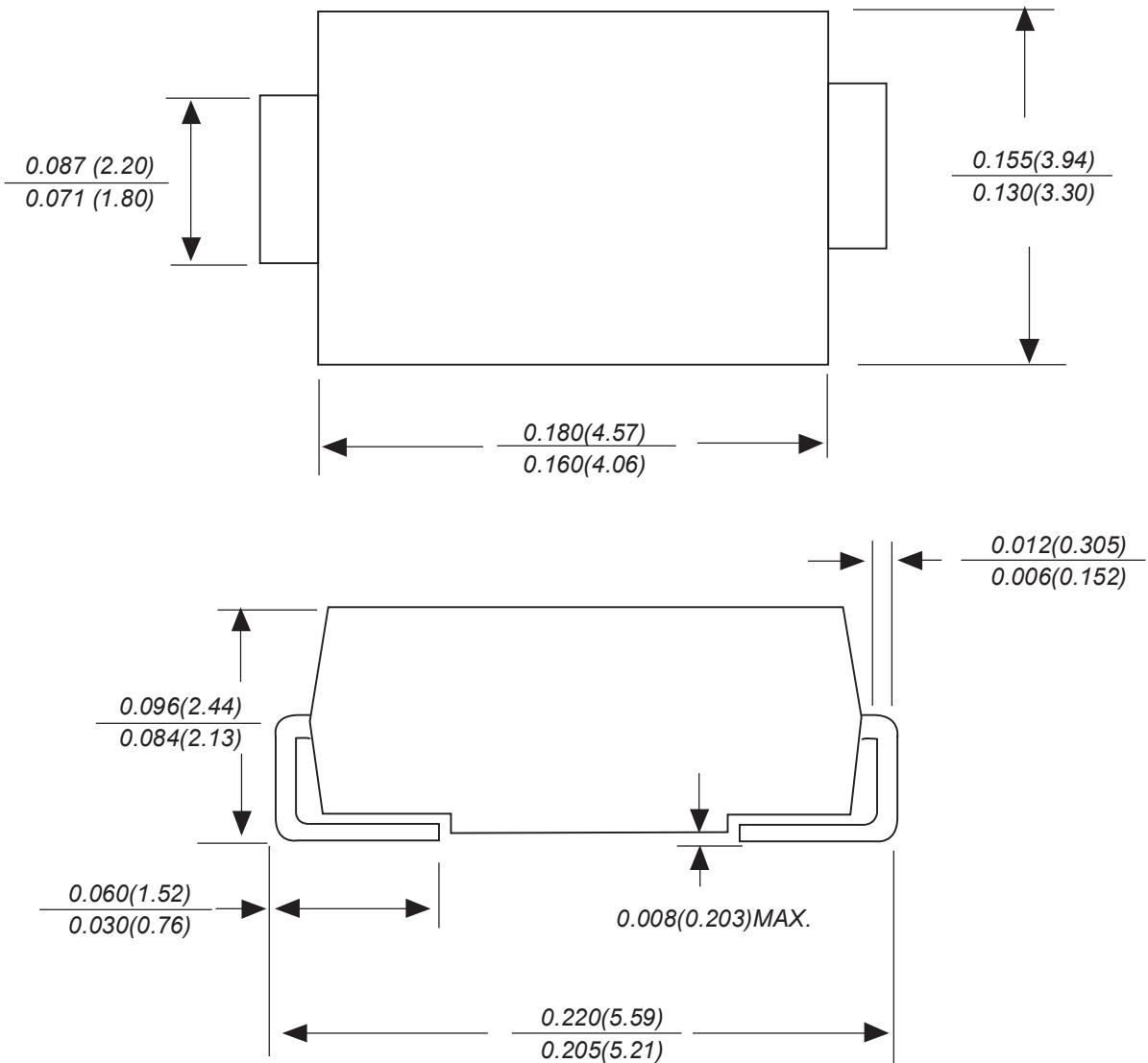


FIG.4: TYPICAL REVERSE CHARACTERISTICS





SMB Package Outline Dimensions



Dimensions in inches and (millimeters)



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