



### Features

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



SMB

### Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SS52~SS520	SMB	SS5*	3000

\*:From2-20



### Maxmim Ratings (Ta=25 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 C	150														
Junction Temperature	$T_J$	°C		-55~+125					-55~+150									
Storage Temperature	$T_{STG}$	°C		-55 ~ +150														

### Electrcal Charcteristics (Ta=25 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	$V_{RM}=V_{RRM}$	0.5					0.1				
	$I_{RRM2}$			20					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 0.27" x 0.27" (7.0 mm x 7.0 mm) copper pad areas



### Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

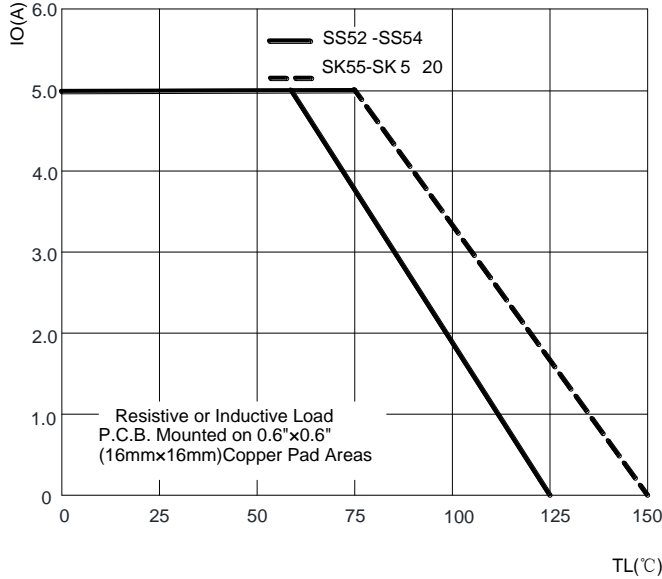


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

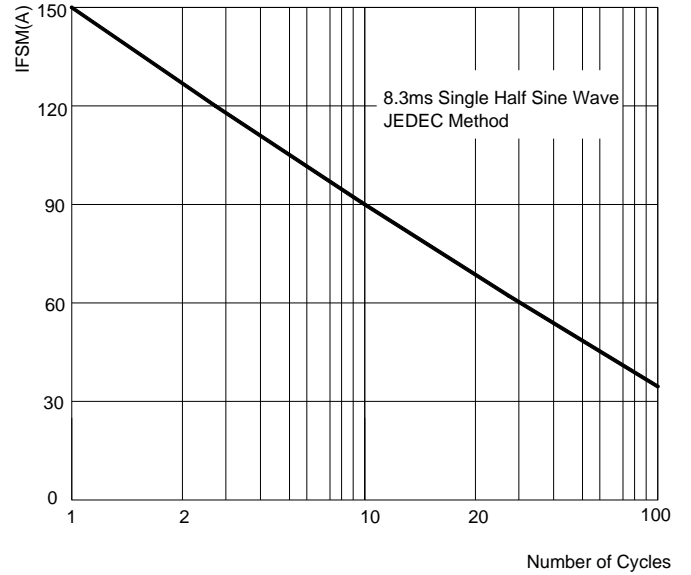


FIG.3: TYPICAL FORWARD CHARACTERISTICS

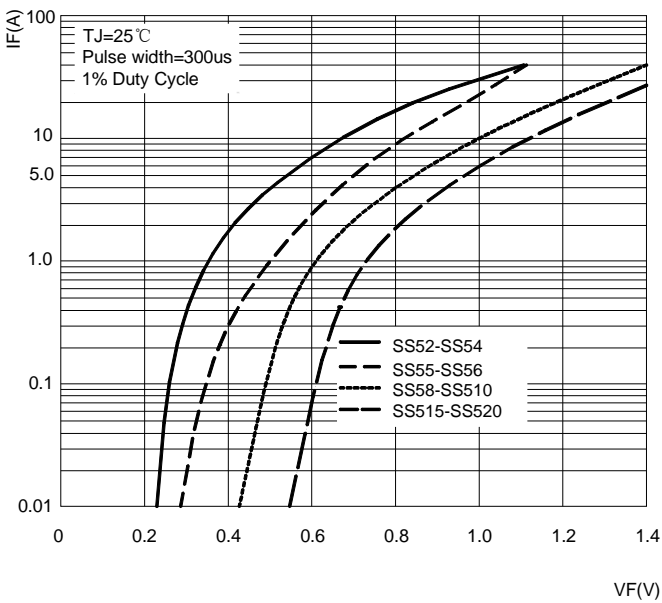
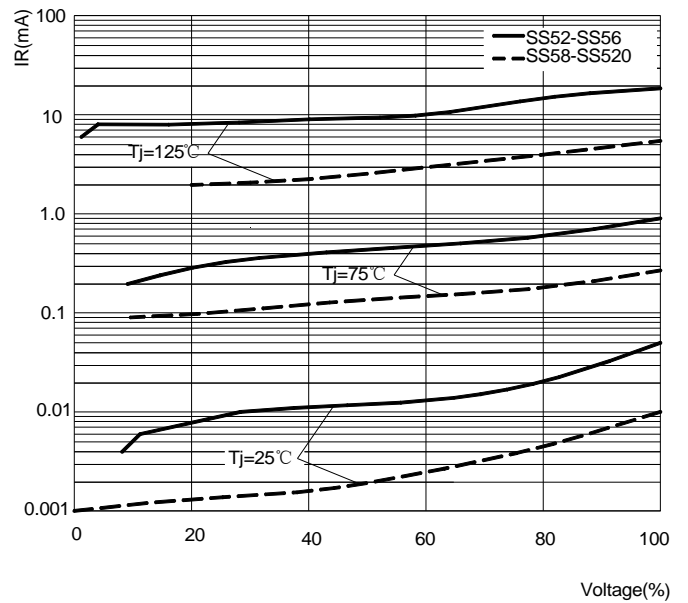
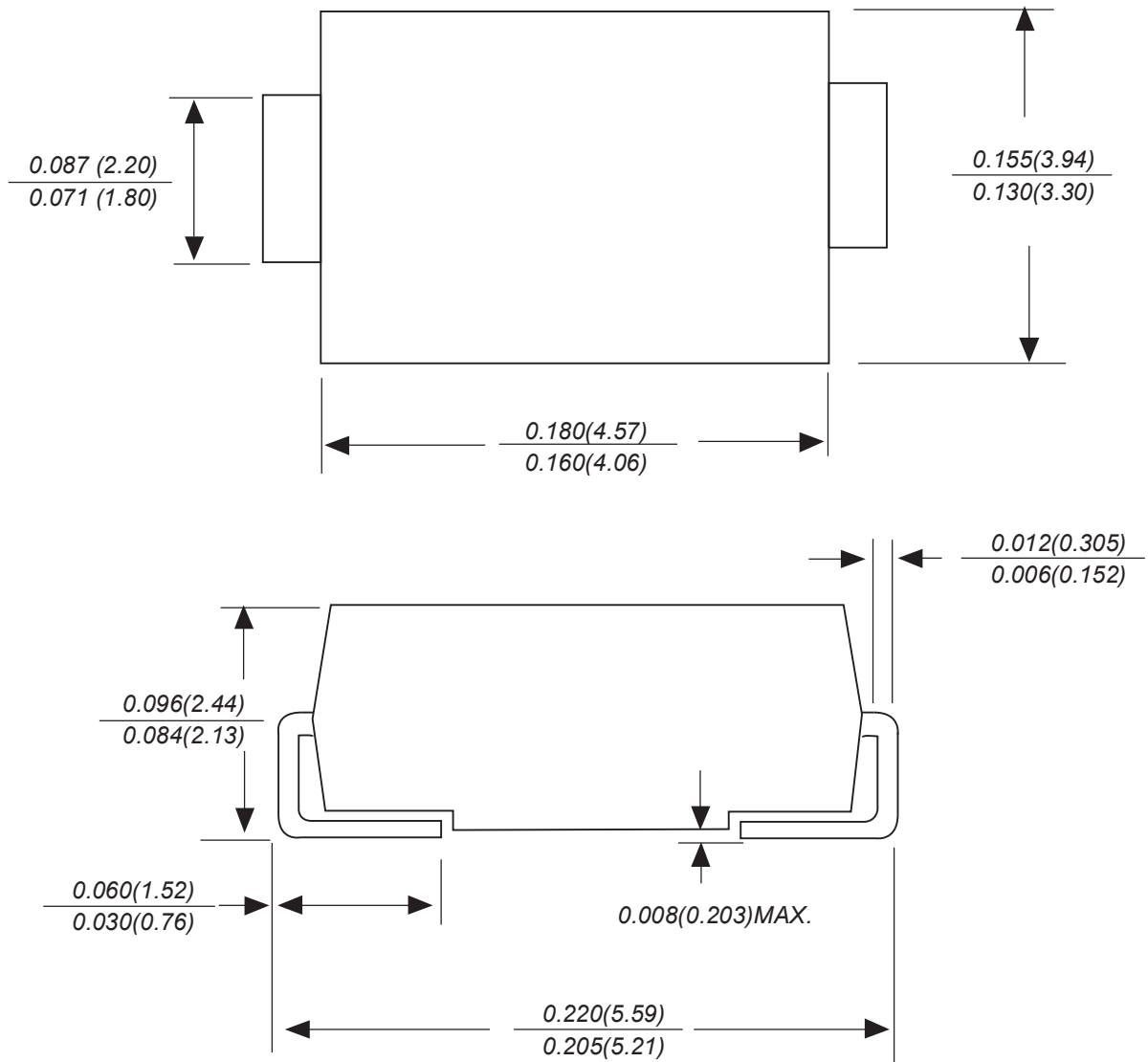


FIG.4: TYPICAL REVERSE CHARACTERISTICS





### SMB Package Outline Dimensions



*Dimensions in inches and (millimeters)*



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