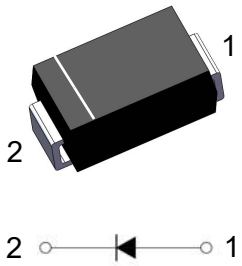
Features

- $I_{F(AV)}$ 5A
- V_{RRM} 20V-200V
- High surge current capability
- Polarity: Color band denotes cathode

SMB



Applications

- Rectifier

Marking

- SS5X
  X：From 2 To 20

Mechanical Data

- Case: SMB
  Molding compound meets UL 94V-0 flammability rating,
  RoHS-compliant,halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026

Limiting Values(Absolute Maximum Rating)

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
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	5.0								
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave，1 cycle，Ta=25℃	150								
Junction Temperature	T_J	℃		-55 ~ +150								
Storage Temperature	T_{STG}	℃		-55 ~ +150								

Electrical Characteristics (T =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	$V_{RM}=V_{RRM}$	T_a=25℃	0.5					0.1			
	I_{RRM2}			T_a=100℃	10					5			
Thermal Resistance(Typical)	$R_{\theta J-C}$	℃/W	Between junction and case		7.0								
	$R_{\theta J-A}$		Between junction and ambient		52.5								
	$R_{\theta J-L}$		Between junction and terminal		16								
Juction Capacitance (Typical)	Cj	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C		260			220		130		100	80

Typical Characteristics

FIG.1:FORWARD CURRENT DERATING CURVE

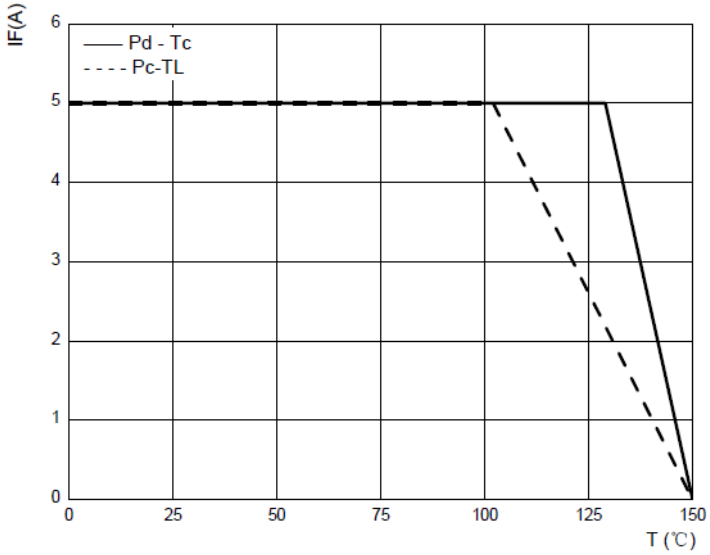
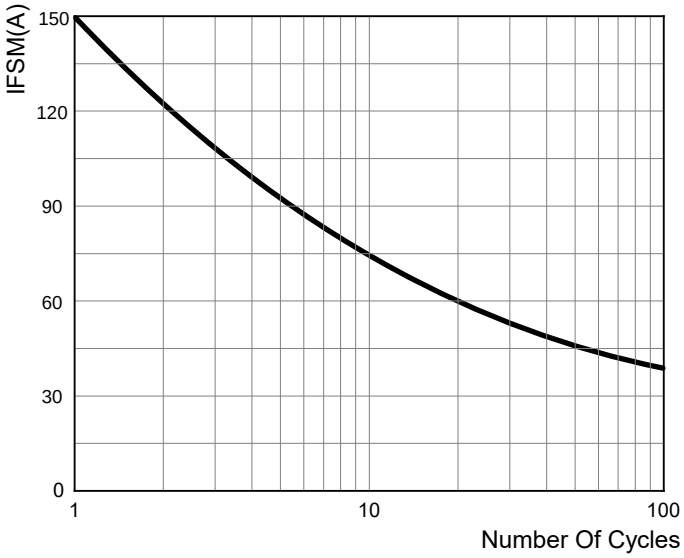
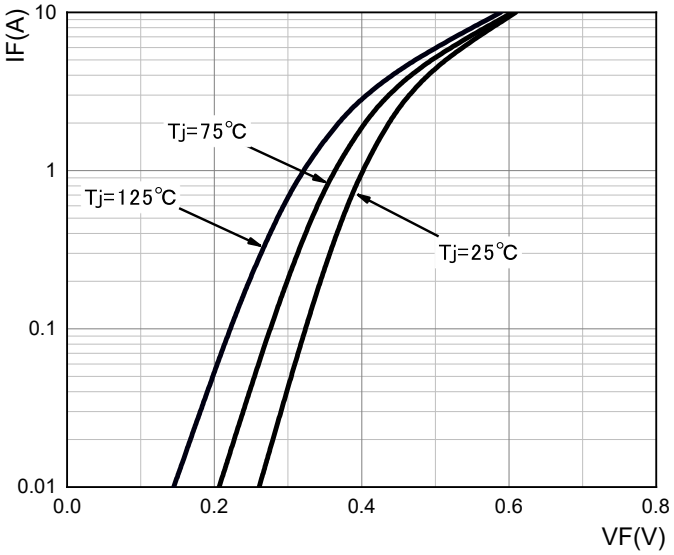


FIG 2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



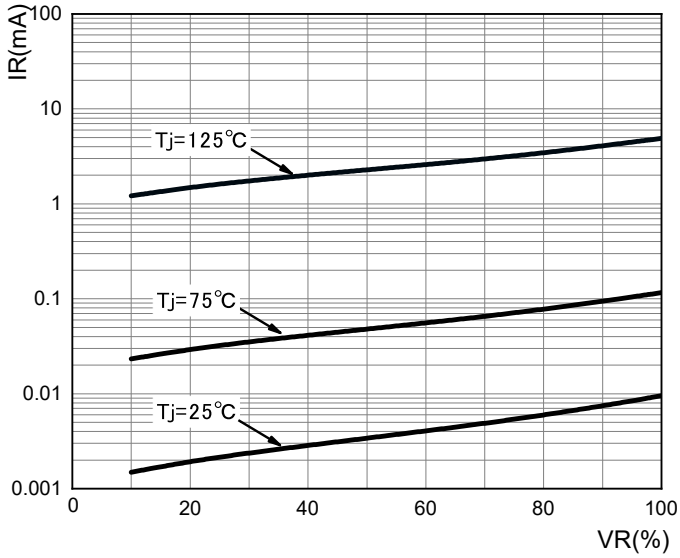
SS52-SS54

FIG.3: TYPICAL FORWARD CHARACTERISTICS

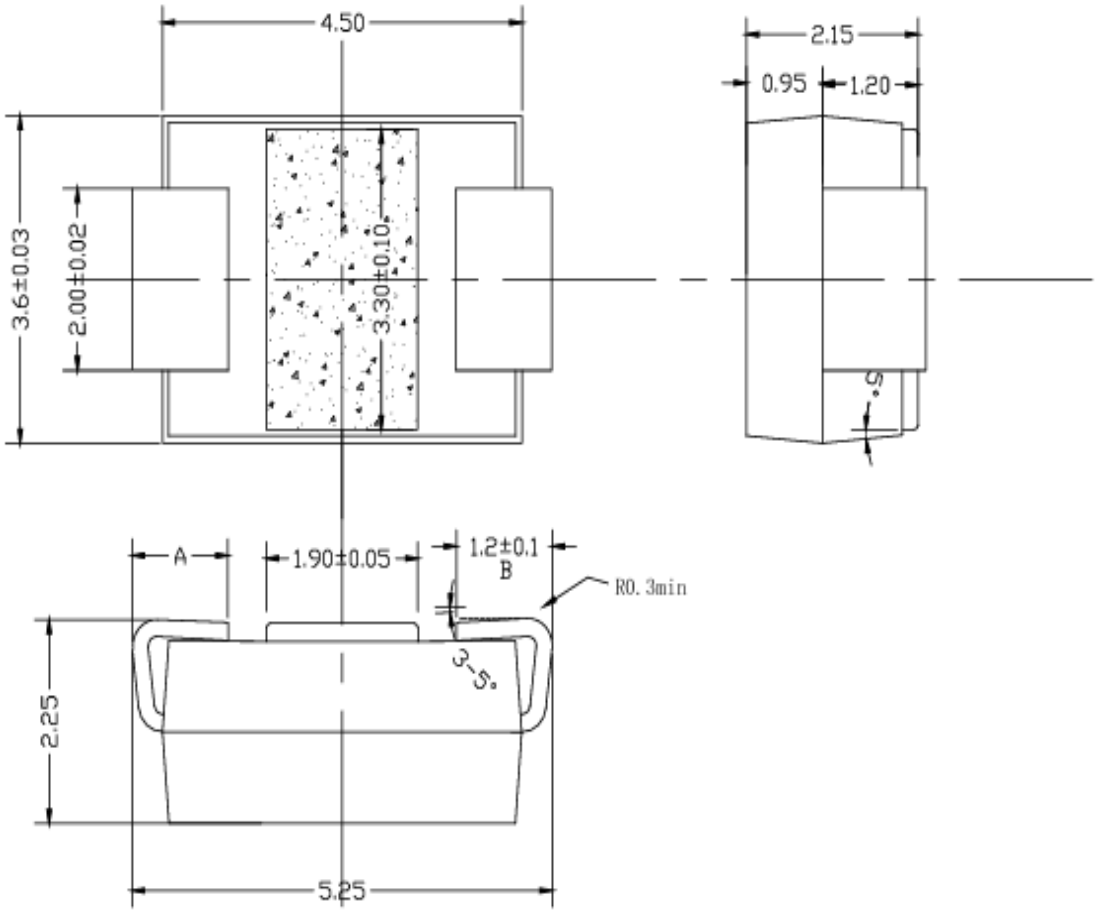


SS52-SS54

FIG.4: TYPICAL REVERSE CHARACTERISTICS



SMB Package Outline Dimensions



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