Features

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

SMBF

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SS52BF ~SS520BF	SMBF	SS5x	3000

x: From 2-20

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

Ratings at 25 °C ambient temperature unless otherwise specified.Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

Item	Symbol	Unit	Test Conditions	SS5							
				2	4	6	8	10	12	15	20
Repetitive Peak Reverse Voltage Maximum DC Blocking Voltage	V_{RRM} V_{DC}	V		20	40	60	80	100	120	150	200
MaximumRMS Voltage	V_{RMS}	V		14	28	42	56	70	84	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 T emperature	T_J	℃		-55~+150							
Storage Temperature	T_{STG}	℃		-55 ~ +150							

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

Item	Symbol	Unit	Test Condition		SS5							
					2	4	6	8	10	12	15	20
Peak Forward Voltage	V_F	V	I_F=5.0A		0.55		0.70		0.85			
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	Ta=25℃	1.0							
	I_{RRM2}			Ta=100℃	50							
Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/W	Between junction and ambient		45							

（1）Measured at 1 MHz and applied reverse voltage of 4 V D.C

Typical Characteristics

Fig.1 Forward Current Derating Curve

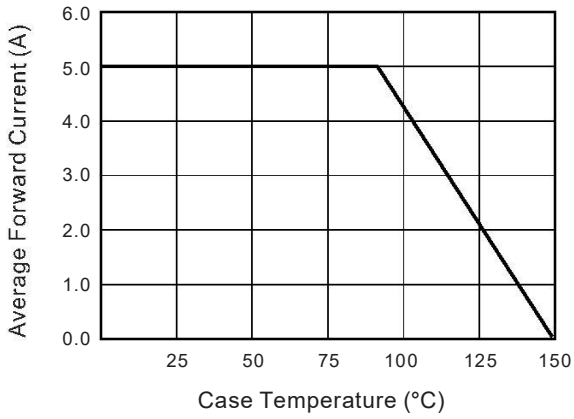


Fig.2 Typical Reverse Characteristics

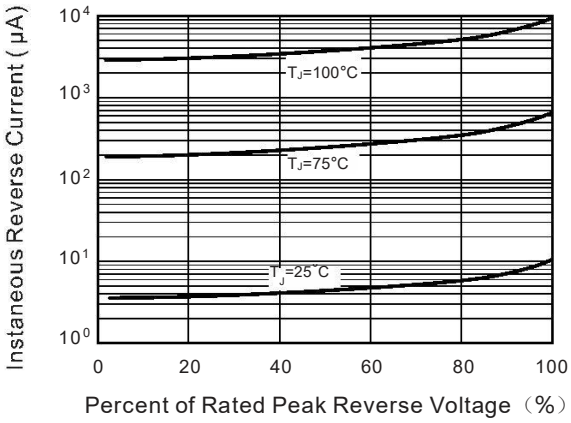


Fig.3 Typical Forward Characteristic

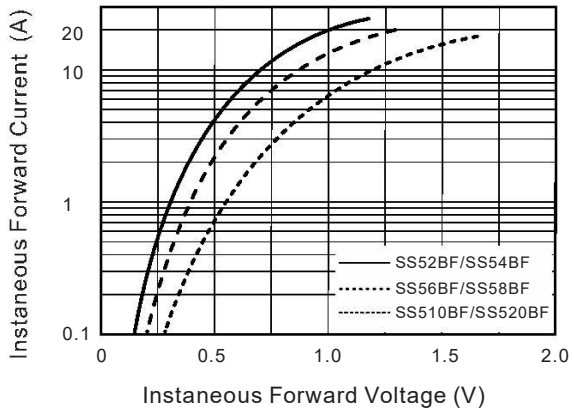


Fig.4 Typical Junction Capacitance

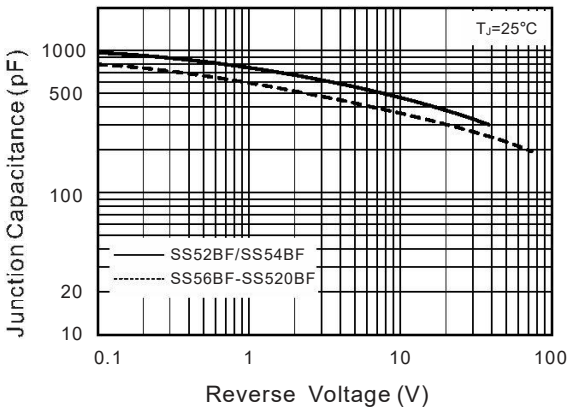


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

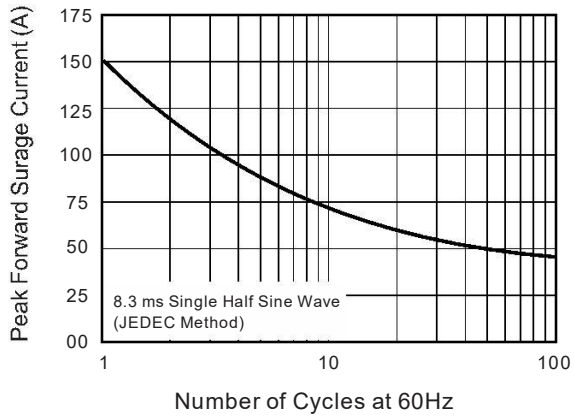
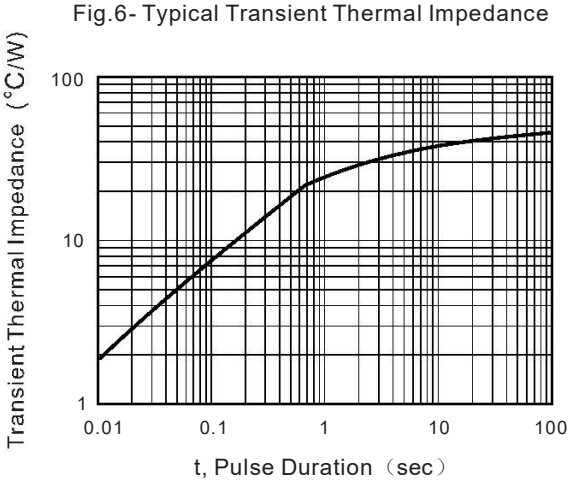
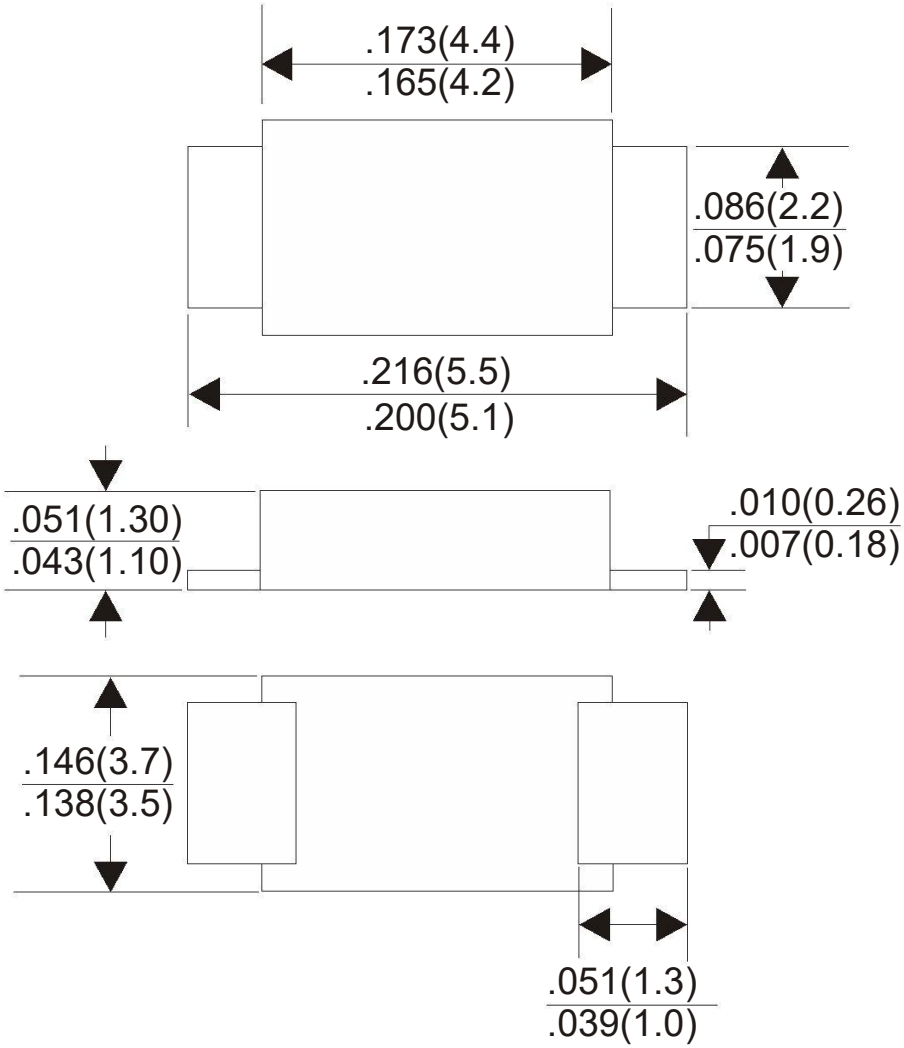


Fig.6- Typical Transient Thermal Impedance



Package Outline Dimensions

SMBF



Dimensions in inches and (millimeters)

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