

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



MAXIMUM RATINGS ($T_a=25^{\circ}C$ 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
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, FIG.1	5.0								
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz Half-sine wave, 1 cycle, Ta=25℃	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								
				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		
			T _a =100℃		20				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 0.27" x 0.27" (7.0 mm x 7.0 mm) copper pad areas

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

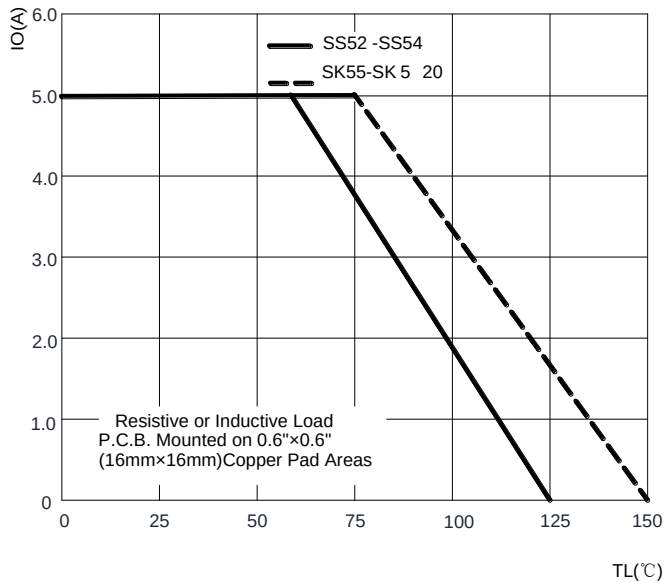


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

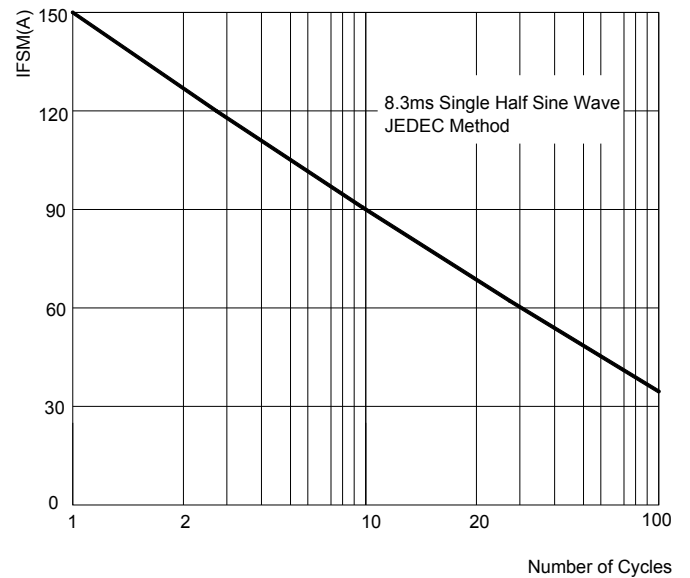


FIG.3: TYPICAL FORWARD CHARACTERISTICS

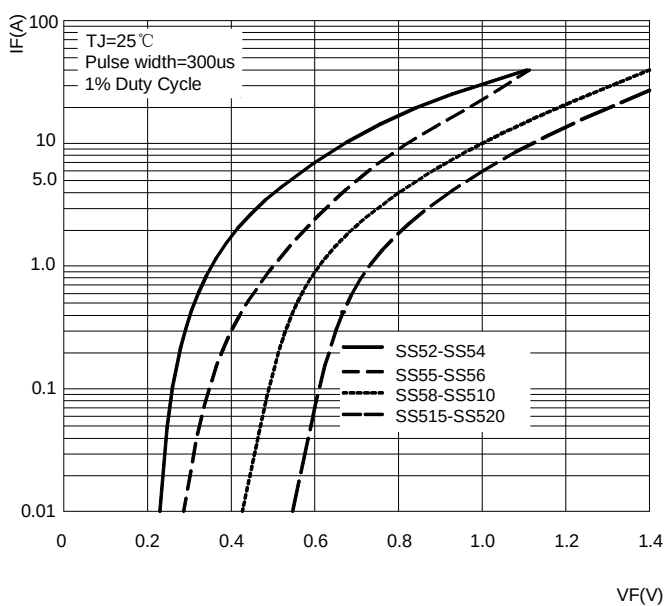
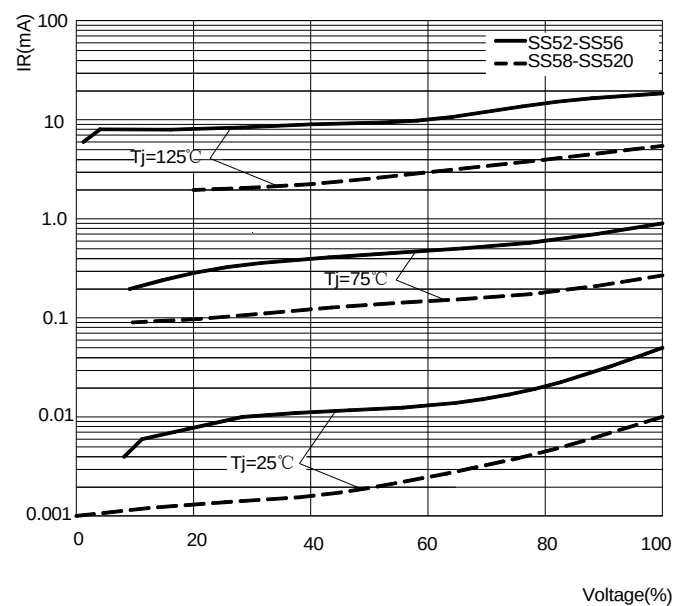
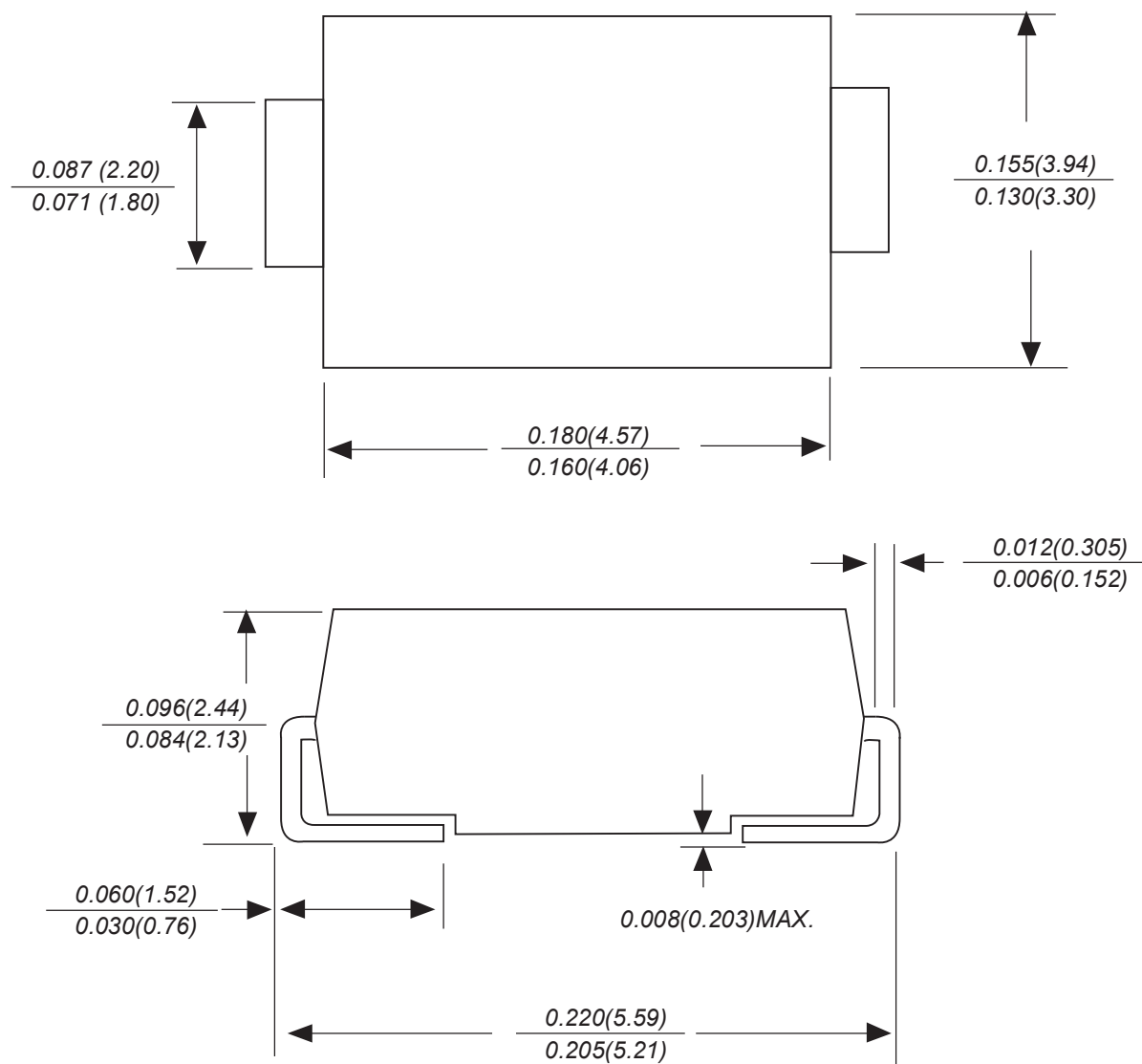


FIG.4: TYPICAL REVERSE CHARACTERISTICS



SMB Package Outline Dimensions



Dimensions in inches and (millimeters)