

FEATURES

- Average Forward Current: $I_{F(AV)}=3A$
- Polarity: Color band denotes cathode



SMB

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SS32~SS320	SMB	SS3✱	3000

✱:From2-20



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Test Conditions	SS3								
				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	3.0								
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz Half-sine wave, 1 cycle, Ta=25℃	70								
Junction Temperature	T _J	℃		-50~+125			-50~+150					
Storage Temperature	T _{STG}	℃		-50 ~ +150								

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

Item	Symbol	Unit	Test Condition		SS3								
					2	3	4	5	6	8	10	15	20
Peak Forward Voltage	V _F	V	I _F =3.0A		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℃			10				5					
Thermal Resistance(Typical)	R _{θJ-A}	℃/ W	Between junction and ambient		55								
	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 0.6" x 0.6" (16 mm x 16 mm) copper pad areas

Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

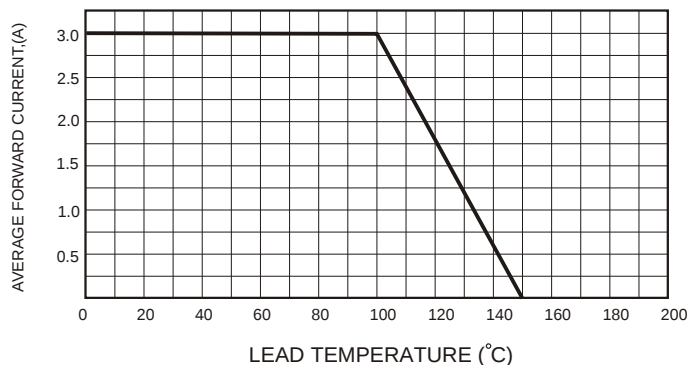


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

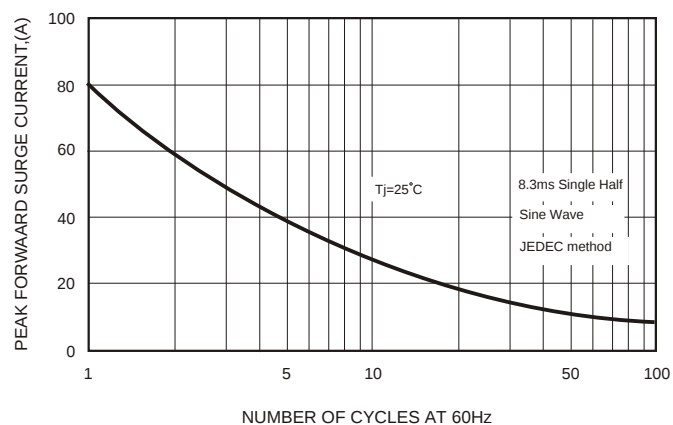


FIG.4-TYPICAL JUNCTION CAPACITANCE

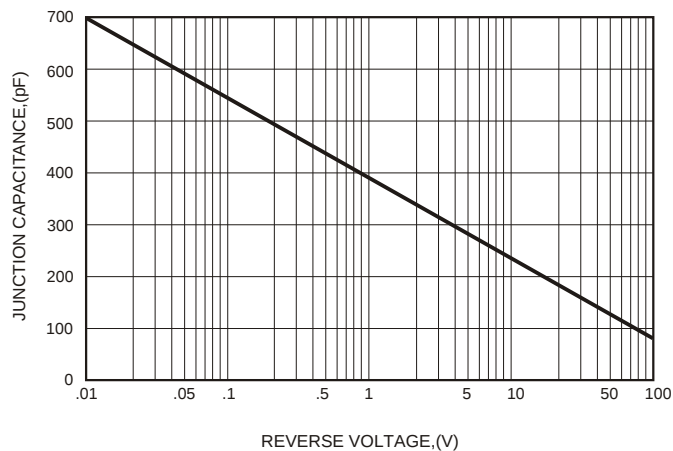


FIG.2-TYPICAL FORWARD CHARACTERISTICS

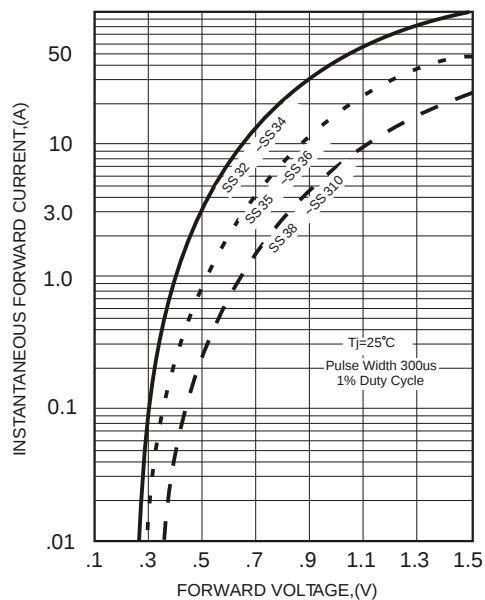
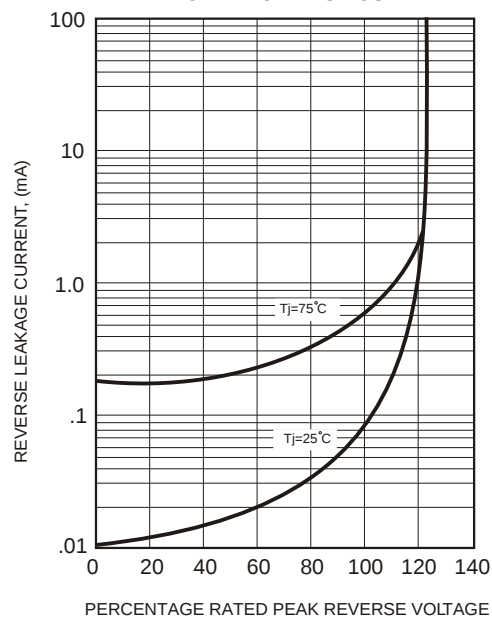
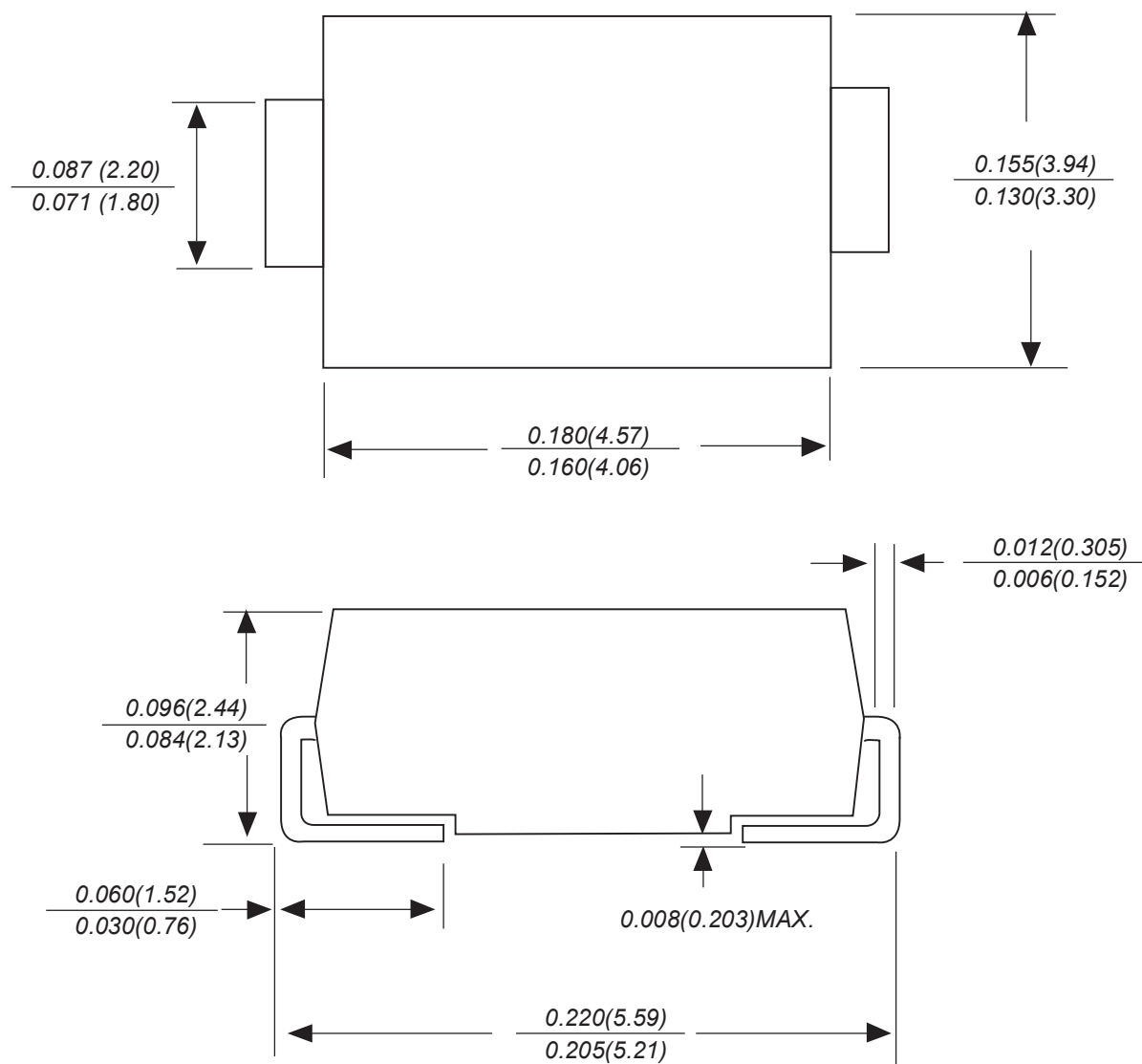


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



SMB Package Outline Dimensions



Dimensions in inches and (millimeters)