

Features

$I_{F(AV)}$ 3A

V_{RRM} 20V-200V

High surge current capability

Polarity: Color band denotes cathode

Applications

Rectifier

SMB



Marking:SK3X

X : 2 To 20

Limiting values(Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	SK 3								
				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	3.0								
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz Half-sine wave , 1 CYCle, Ta=25℃	80								
Junction Temperature	T _J	℃		-55~+150								
Storage Temperature	T _{STG}	℃		-55 ~ +150								

Electrical Characteristics ($T = 25^{\circ}C$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	SK 3								
				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}	Ta=25°C		0.5			0.1			
	Ta=100°C			10			5.0					
Thermal Resistance(Typical)	R _{θJ-A}	°C/ W	Between junction and ambient		55							
	R _{θJ-L}		Between junction and terminal		13							
Juction Capacitance (Typical)	Cj	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C		146		117		85		66	57

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on FR4 PCB double sided copper mini pad

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

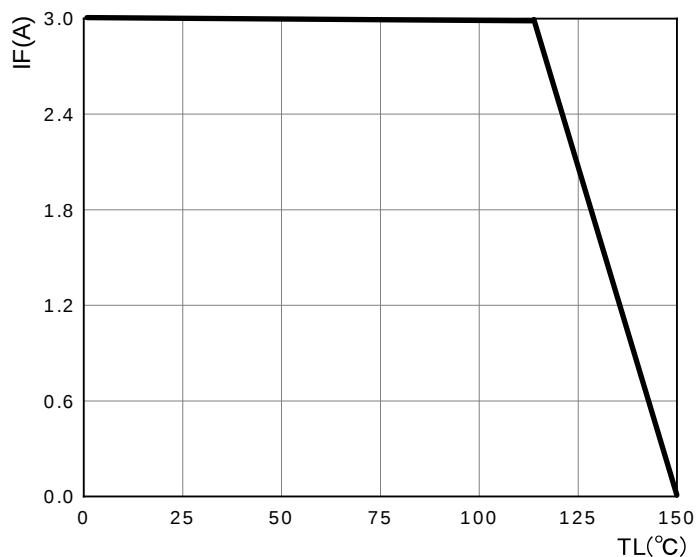
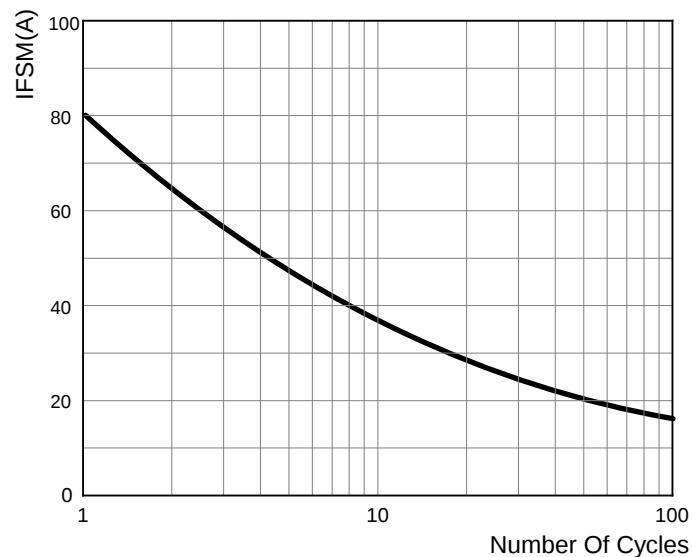
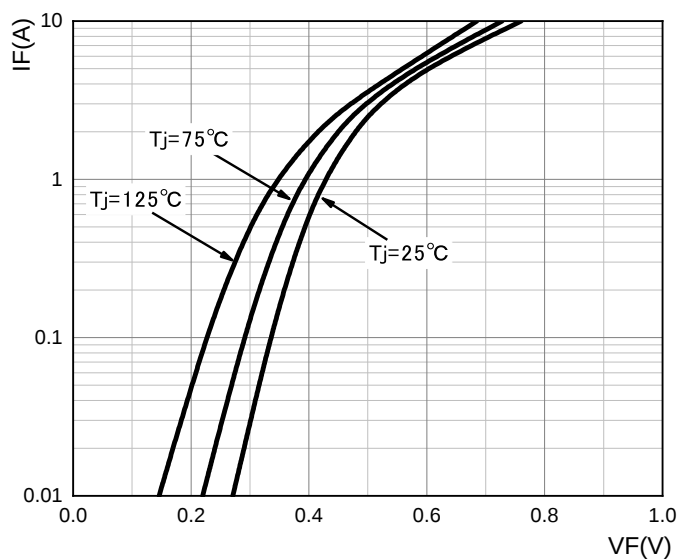


FIG 2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



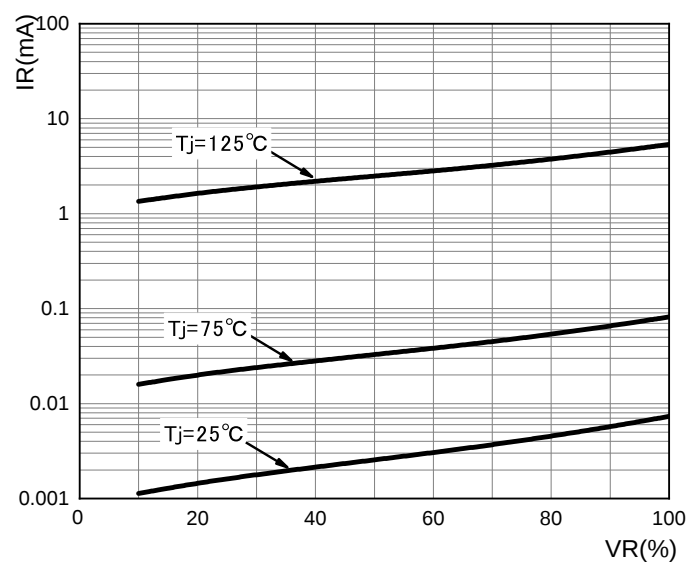
SK32-SK34

FIG.3: TYPICAL FORWARD CHARACTERISTICS



SK32-SK34

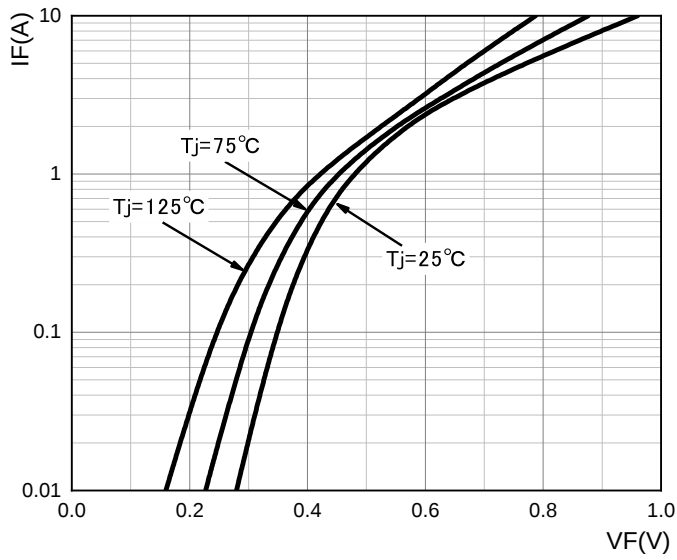
FIG.4: TYPICAL REVERSE CHARACTERISTICS



Typical Characteristics

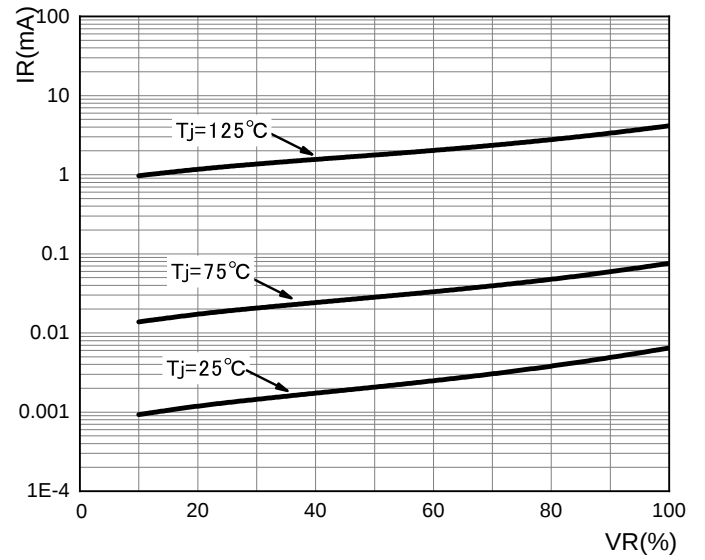
SK35-SK36

FIG.5: TYPICAL FORWARD CHARACTERISTICS



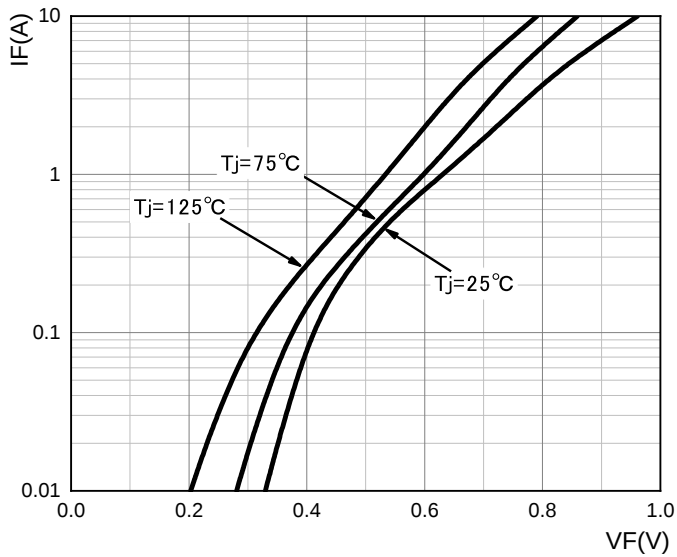
SK35-SK36

FIG.6: TYPICAL REVERSE CHARACTERISTICS



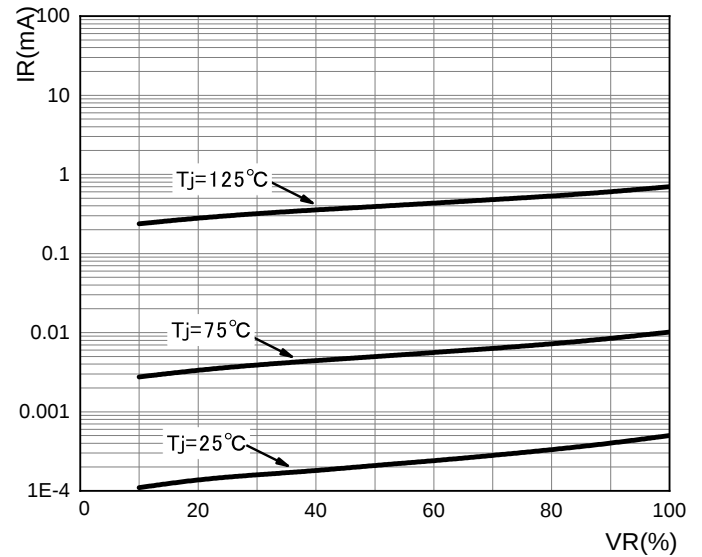
SK38-SK310

FIG.7: TYPICAL FORWARD CHARACTERISTICS



SK38-SK310

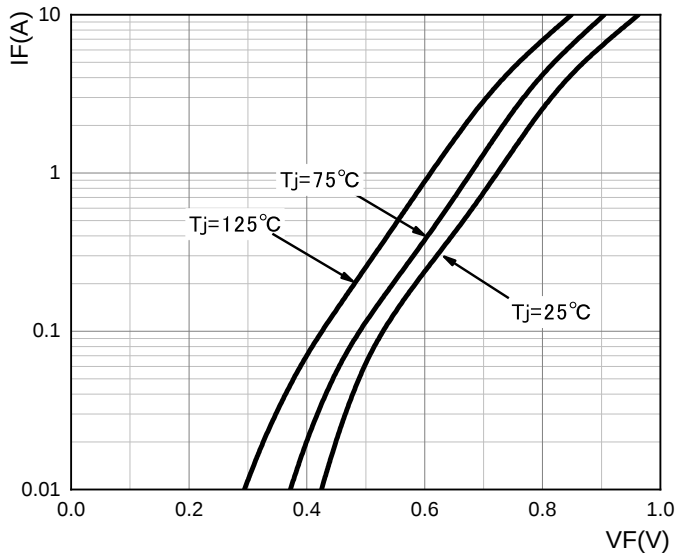
FIG.8: TYPICAL REVERSE CHARACTERISTICS



Typical Characteristics

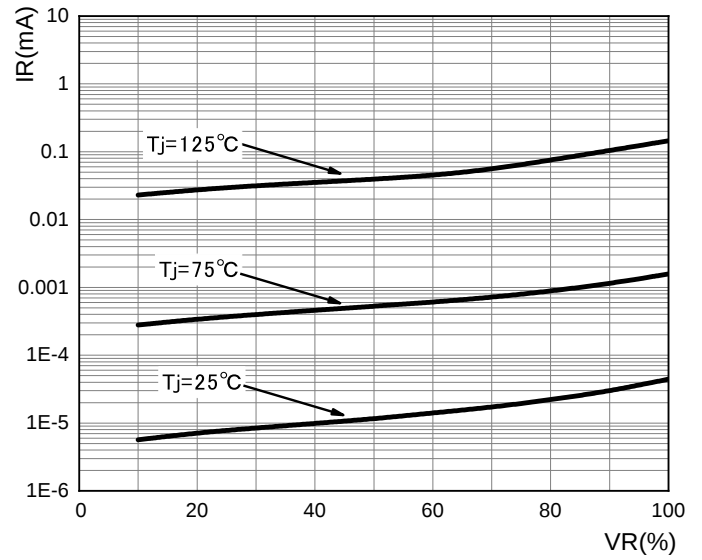
SK315

FIG.9: TYPICAL FORWARD CHARACTERISTICS



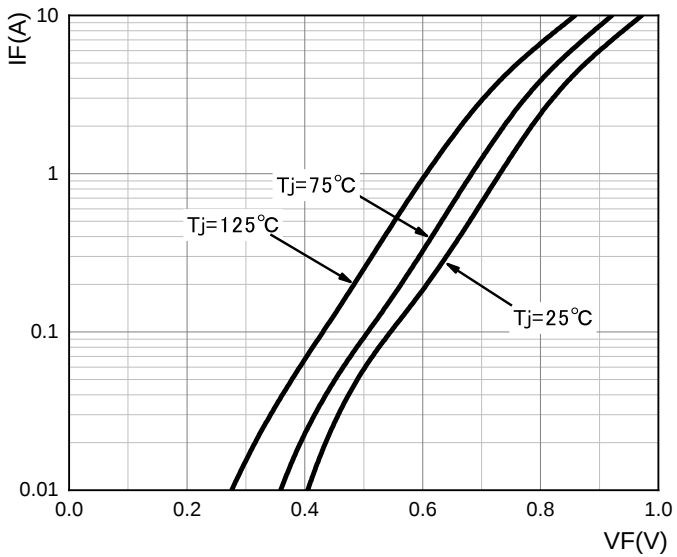
SK315

FIG.10: TYPICAL REVERSE CHARACTERISTICS



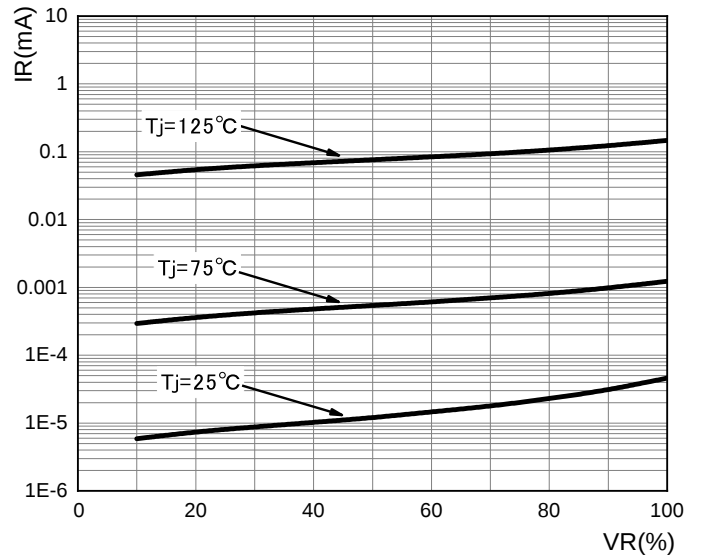
SK320

FIG.11: TYPICAL FORWARD CHARACTERISTICS

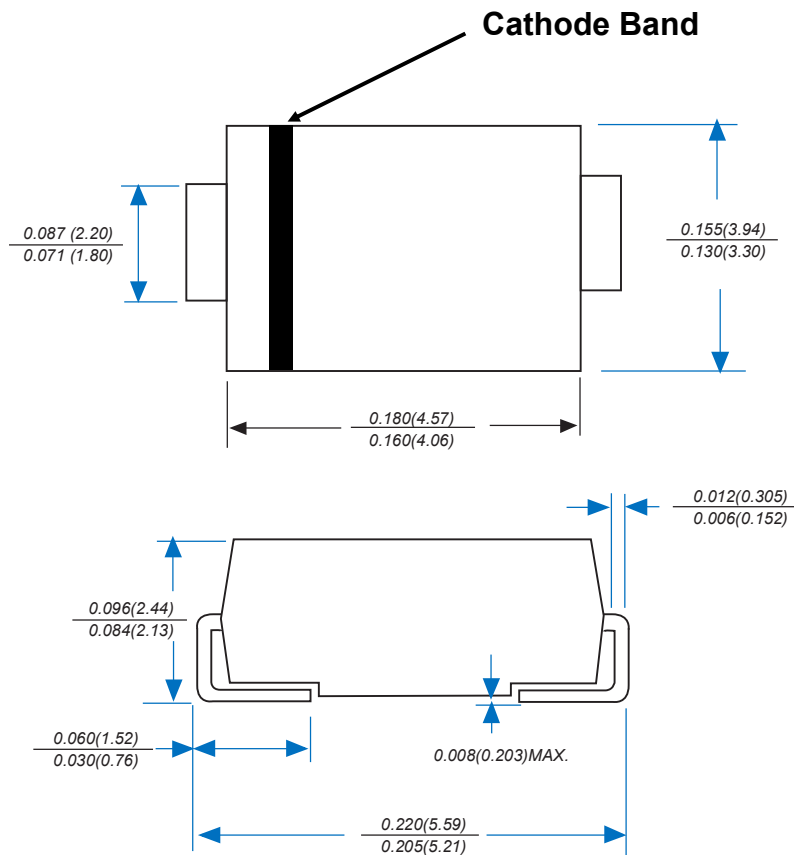


SK320

FIG.12: TYPICAL REVERSE CHARACTERISTICS

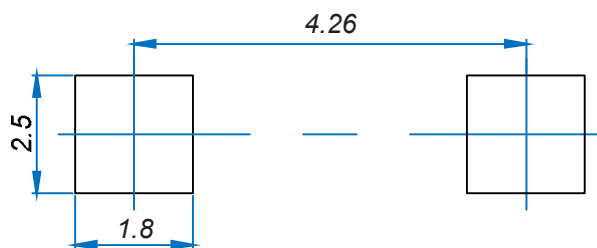


SMB Package outline Dimensions



Dimensions in inches and (millimeters)

SMB Suggested pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05 \text{ mm}$.
3. The pad layout is for reference purposes only.