

Features

- $I_{F(AV)}$ 2A
- V_{RRM} 20V-200V
- High surge current capability
- Polarity: Color band denotes cathode

Applications

- Rectifier

Marking

- SK2X

X : From 2 To 20



SMB top view



Schematic diagram



Halogen-Free

Limiting Values(Absolute Maximum Rating)

Symbol	Parameter	Test Conditions	SK2									Unit
			2	3	4	5	6	8	10	15	20	
V _{RRM}	Repetitive Peak Reverse Voltage		20	30	40	50	60	80	100	150	200	V
V _{RMS}	Maximum RMS voltage		14	21	28	35	42	56	70	105	140	V
I _{F(AV)}	Average Forward Current	60Hz Half-sine wave Resistance load	2.0									A
I _{FSM}	Surge(Non-repetitive)Forward Current	60Hz Half-sine wave, 1 cycle, Ta=25℃	50									A
T _j	Junction Temperature		-55~+125			-55~+150						℃
T _{stg}	Storage Temperature Range		-55~+150									℃

Electrical Characteristics (T=25°C Unless otherwise specified)

Item	Symbol	Test Condition		SK2								Unit
				2	3	4	5	6	8	10	15	
Peak Forward Voltage	V _F	I _F =2.0A		0.55		0.70		0.85		0.95		V
Peak Reverse Current	I _{RRM1}	V _{RM} =V _{RRM}	Ta =25℃	0.5				0.1				mA
	I _{RRM2}	V _{RM} =V _{RRM}	Ta =100℃	10				5.0				
Thermal Resistance(Typical)	R _{θJ-A}	Between junction and ambient		72								℃/W
	R _{θJ-L}	Between junction and terminal		18								
Juction Capacitance (Typical)	Cj	Measured at 1MHZ and Applied Rever Voltage of 4.0 V.D.C		114		92		53		40		pF

Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
SK22	SMB	SK22	2,000	10,000	100,000	7"reel
SK23		SK23				
SK24		SK24				
SK25		SK25				
SK26		SK26				
SK28		SK28				
SK210		SK210				
SK215		SK215				
SK220		SK220				

Typical Characteristics

Fig.1 Forward Current Derating Curve

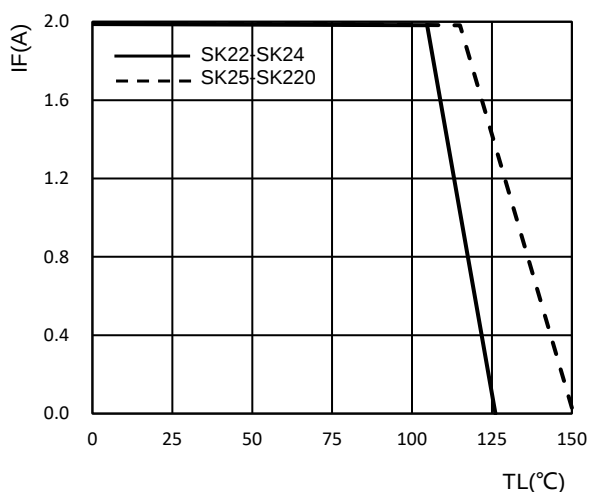
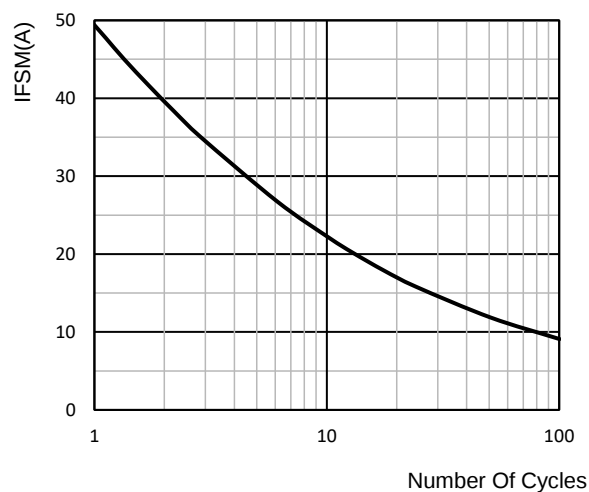
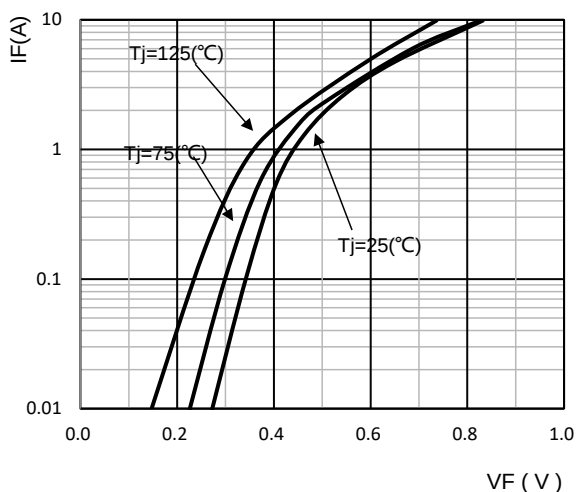


Fig.2 Maximum Non-Repetitive Forward Surge Current



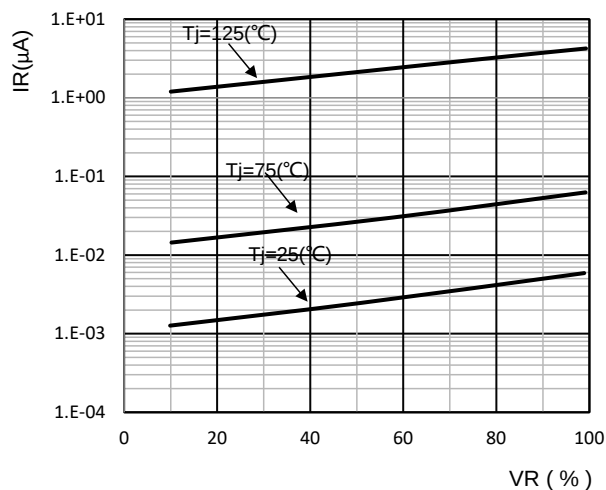
SK22-SK24

Fig.3 Typical Forward Characteristics



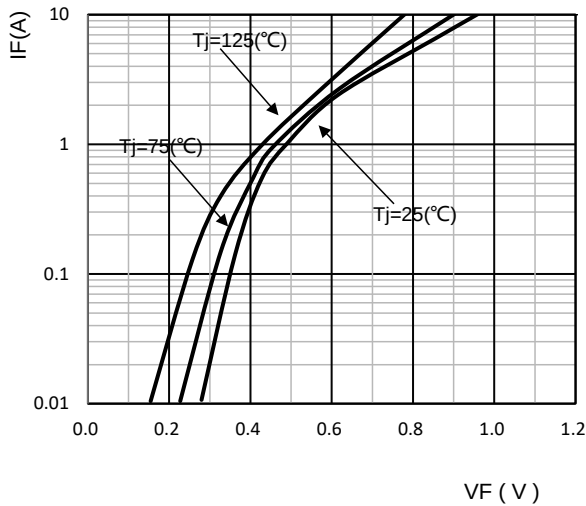
SK22-SK24

Fig.4 Typical Reverse Characteristics



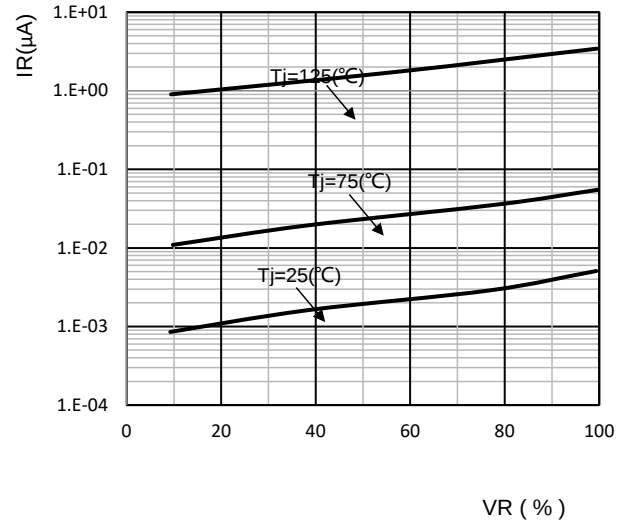
SK25-SK26

Fig.5 Typical Forward Characteristics



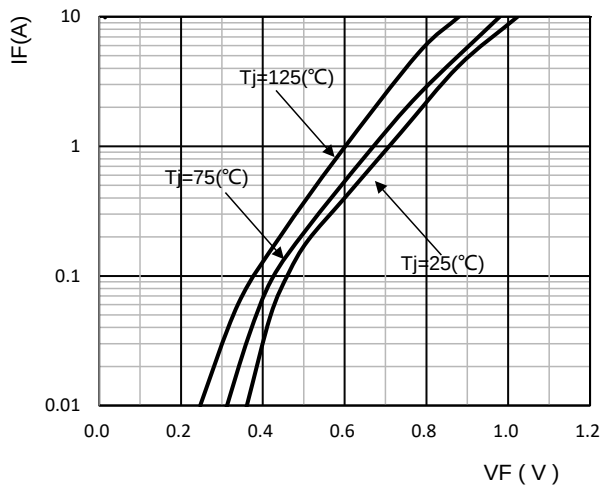
SK25-SK26

Fig.6 Typical Reverse Characteristics



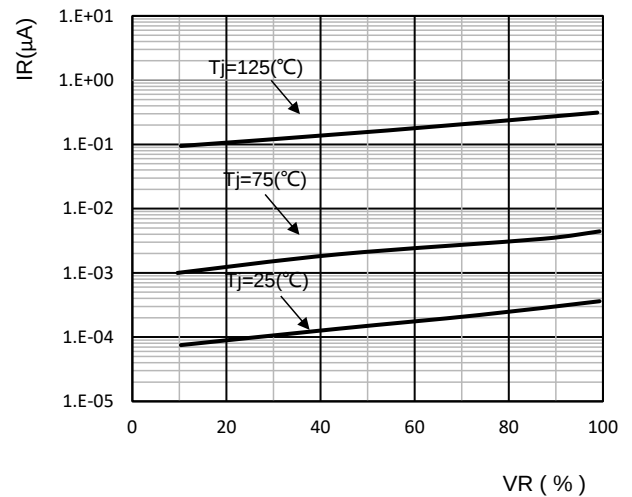
SK28-SK210

Fig.7 Typical Forward Characteristics



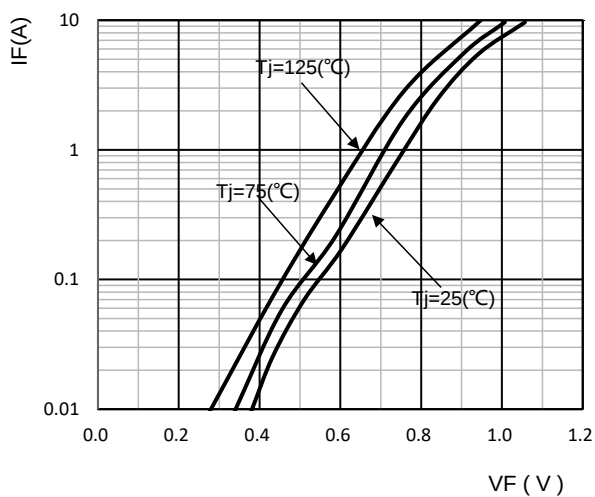
SK28-SK210

Fig.8 Typical Reverse Characteristics



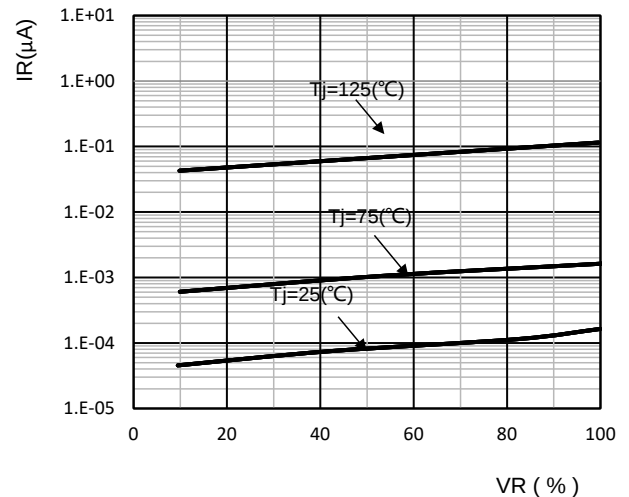
SK215

Fig.9 Typical Forward Characteristics



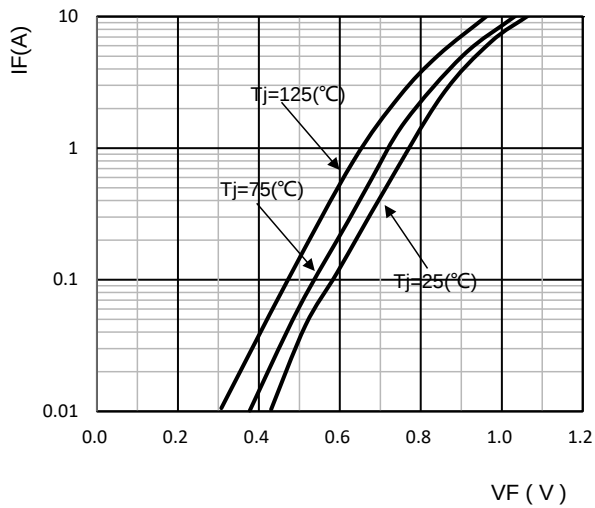
SK215

Fig.10 Typical Reverse Characteristics



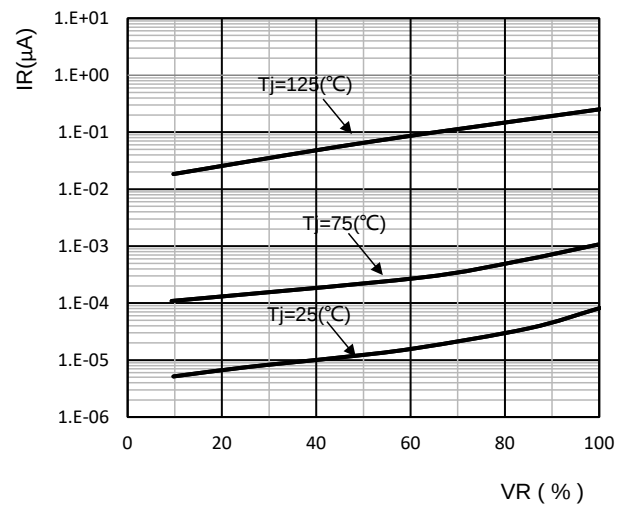
SK220

Fig.11 Typical Forward Characteristics



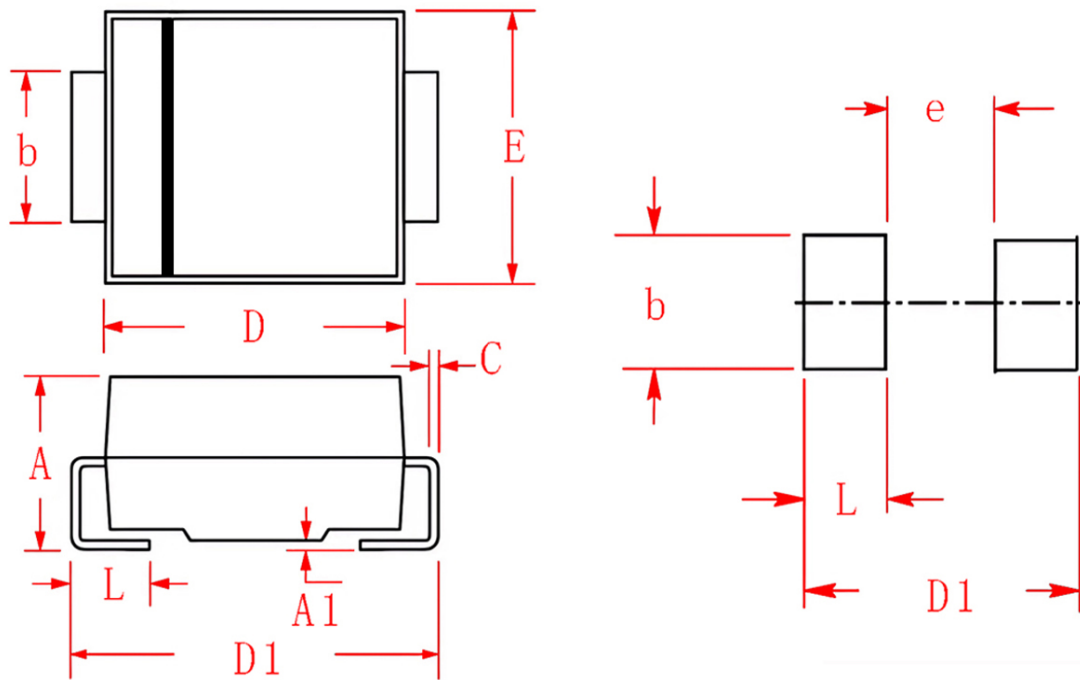
SK220

Fig.12 Typical Reverse Characteristics



SMB Package information

SMB (DO-214AA)



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	2.130	2.440	0.084	0.096
A1	0.050	0.200	0.002	0.008
b	1.900	2.200	0.075	0.087
C	0.152	0.305	0.006	0.012
D	4.060	4.700	0.160	0.185
D1	5.080	5.590	0.200	0.220
E	3.300	3.940	0.130	0.155
e	-	2.159	-	0.085
L	0.800	1.500	0.031	0.059