

Features

- $I_{F(AV)}$ 3A
- V_{RRM} 20V-200V
- High surge current capability
- Polarity: Color band denotes cathode

Applications

- Rectifier

Marking

- SS3X

X : From 2 To 20



SMA top view



Schematic diagram



Halogen-Free

Maximum Ratings($T_a=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Test Conditions	SS3									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	3.0									A
I_{FSM}	Surge(Non-repetitive)Forward Current	60Hz Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$	80									A
T_j	Junction Temperature		-55~+150									$^\circ\text{C}$
T_{stg}	Storage Temperature Range		-55~+150									$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS($T_a=25^\circ\text{C}$ unless otherwise specified)

Item	Symbol	Test Condition		SS3								Unit
				2	3	4	5	6	8	10	15	
Peak Forward Voltage	V _F	I _F =3.0A		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 _{θJA}	Between junction and ambient		75								℃/W
	R _{θJL}	Between junction and terminal		27								
Juction Capacitance (Typical)	C _j	Measured at 1MHZ and Applied Rever Voltage of 4.0 V.D.C		146		117		85		66	57	pF

Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
SS32	SMA	SS32	2,000	10,000	100,000	7"reel
SS33		SS33				
SS34		SS34				
SS35		SS35				
SS36		SS36				
SS38		SS38				
SS310		SS310				
SS315		SS315				
SS320		SS320				

Typical Characteristics

Fig.1 Forward Current Derating Curve

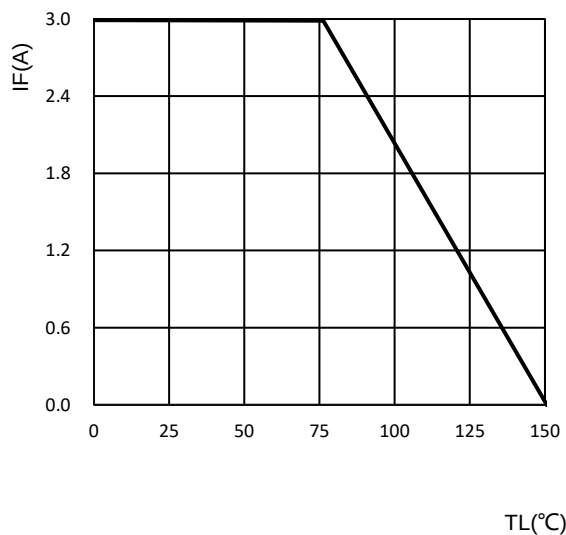
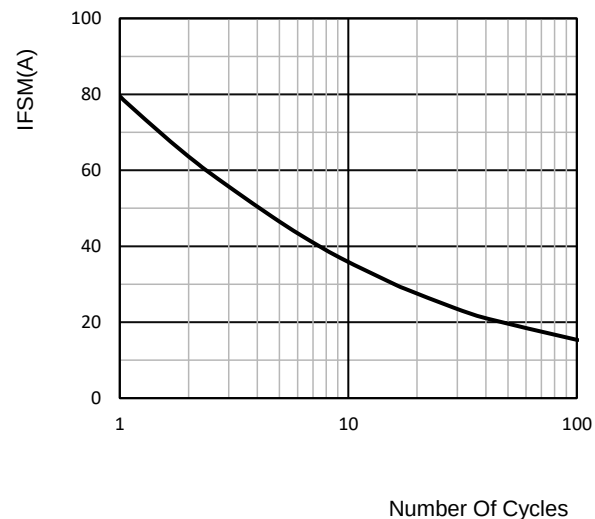
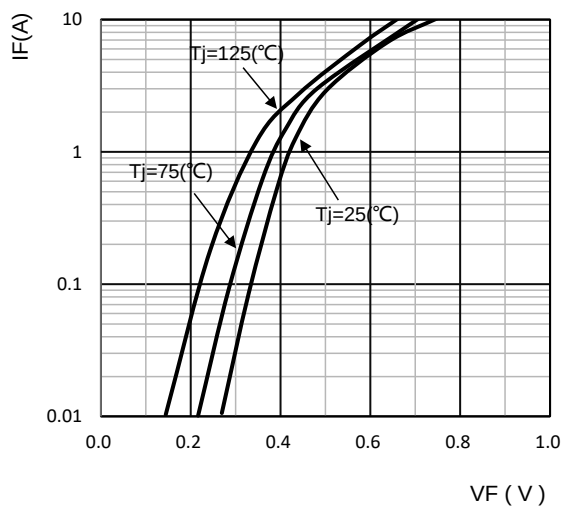


Fig.2 Maximum Non-Repetitive Forward Surge Current



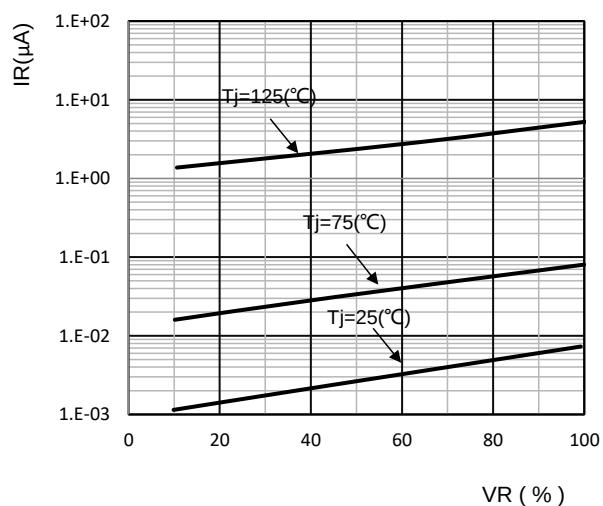
SS32-SS34

Fig.3 Typical Forward Characteristics



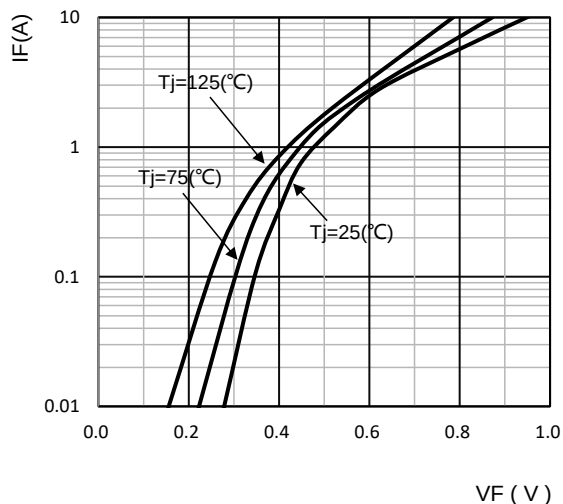
SS32-SS34

Fig.4 Typical Reverse Characteristics



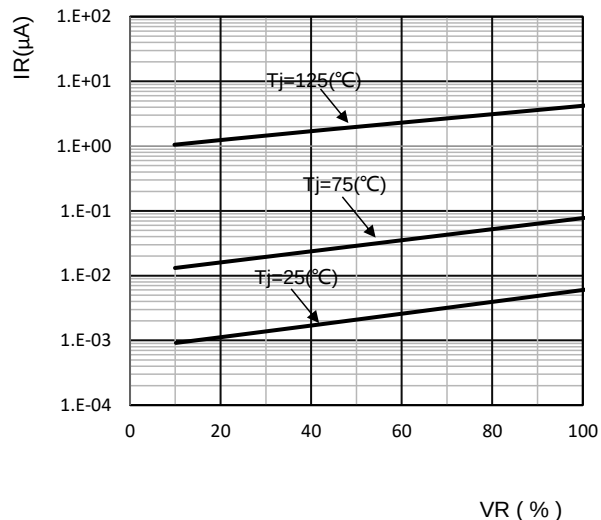
SS35-SS36

Fig.5 Typical Forward Characteristics



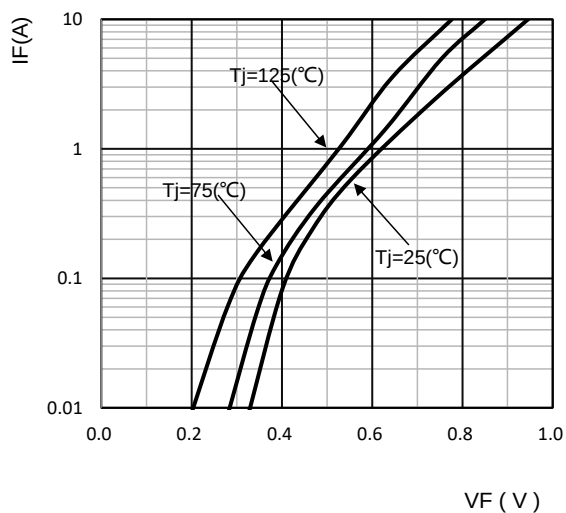
SS35-SS36

Fig.6 Typical Reverse Characteristics



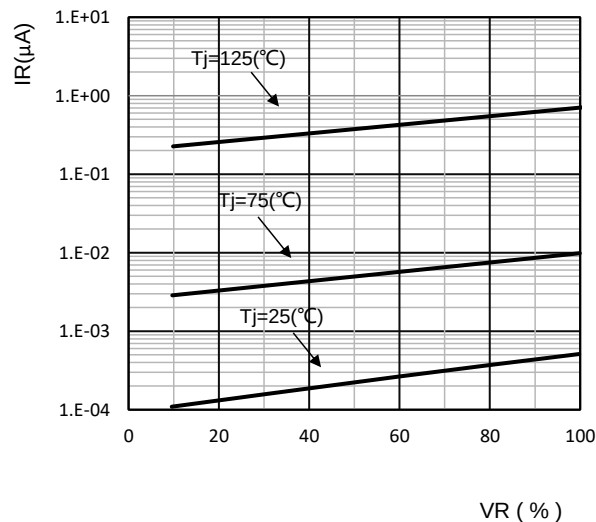
SS38-SS230

Fig.7 Typical Forward Characteristics



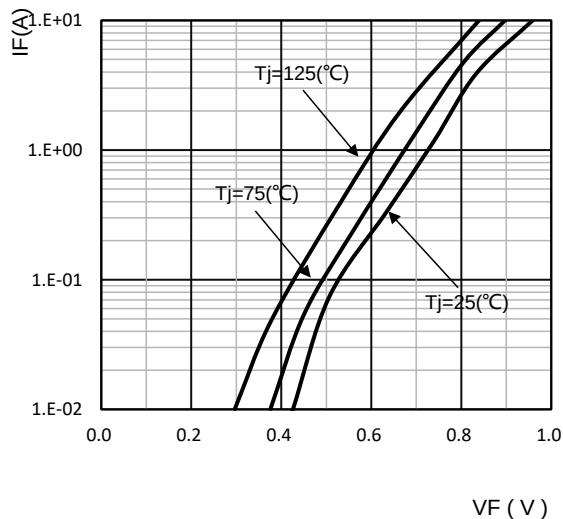
SS38-SS310

Fig.8 Typical Reverse Characteristics



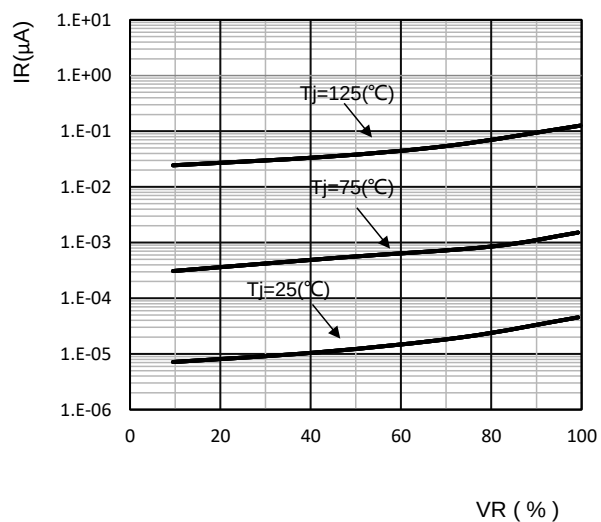
SS315

Fig.9 Typical Forward Characteristics



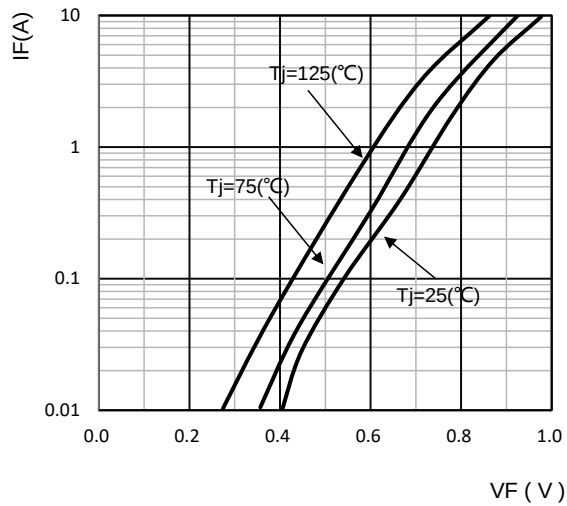
SS315

Fig.10 Typical Reverse Characteristics



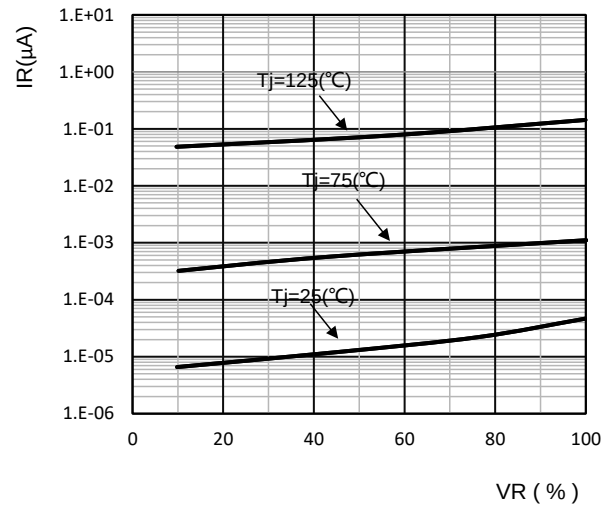
SS320

Fig.11 Typical Forward Characteristics



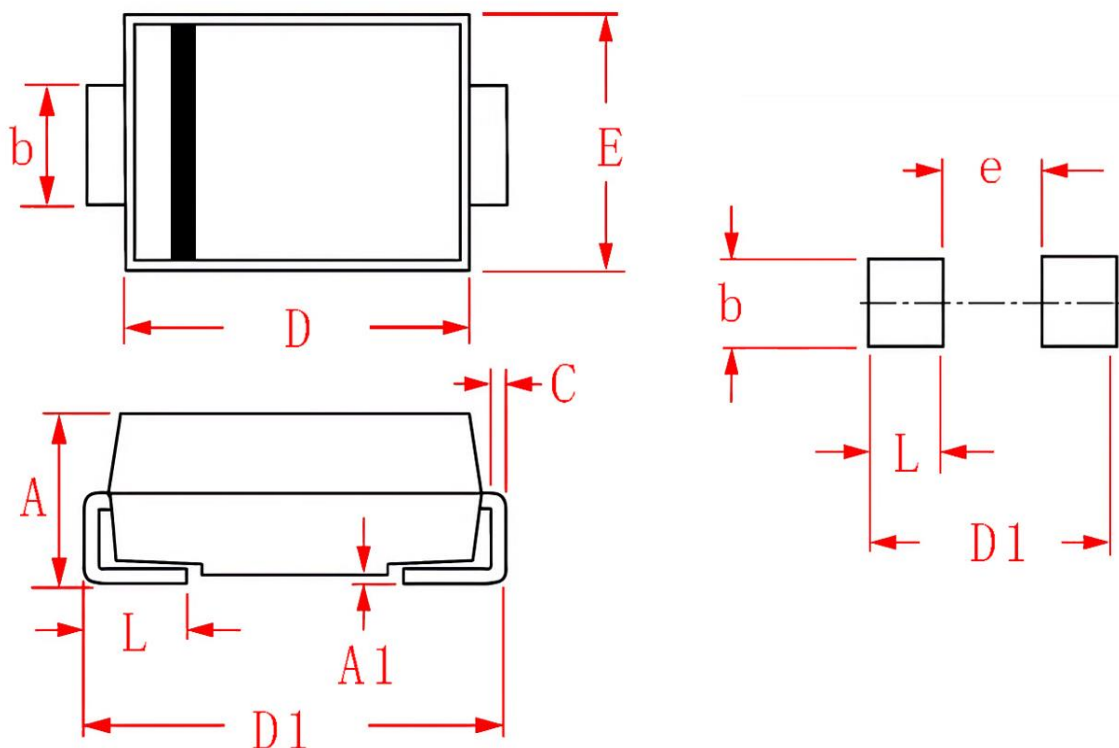
SS320

Fig.12 Typical Reverse Characteristics



SMA Package information

SMA (DO-214AC)



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	1.900	2.200	0.075	0.087
A1	0.050	0.200	0.002	0.008
b	1.300	1.600	0.051	0.063
C	0.150	0.310	0.006	0.012
D	4.000	4.500	0.157	0.177
D1	4.700	5.200	0.185	0.205
E	2.300	2.700	0.090	0.106
e	-	1.880	-	0.074
L	0.900	1.500	0.035	0.059