

**Features**

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



SMA top view



Schematic diagram

**Applications**

- Rectifier

**Marking**

- SS2X

X : From 2 To 20



Pb-Free



RoHS



HAL

Halogen-Free

**Limiting Values(Absolute Maximum Rating)**

Symbol	Parameter	Test Conditions	SS2									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, $T_a=25^{\circ}C$	50									A
$T_j$	Junction Temperature		-55~+125			-55~+150						$^{\circ}C$
$T_{stg}$	Storage Temperature Range		-55~+150									$^{\circ}C$

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

Item	Symbol	Test Condition	SS2									Unit
			2	3	4	5	6	8	10	15	20	
Peak Forward Voltage	$V_F$	$I_F=2.0A$	0.55		0.70		0.85		0.95		V	
Peak Reverse Current	$I_{RRM1}$	$V_{RM}=V_{RRM}$ $T_a=25^{\circ}C$	0.5			0.1						mA
	$I_{RRM2}$	$V_{RM}=V_{RRM}$ $T_a=100^{\circ}C$	10			5.0						
Thermal Resistance(Typical)	$R_{\theta JA}$	Between junction and ambient	88									$^{\circ}C/W$
	$R_{\theta JL}$	Between junction and terminal	28									
Juction Capacitance (Typical)	$C_j$	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
SS22	SMA	SS22	2,000	10,000	100,000	7"reel
SS23		SS23				
SS24		SS24				
SS25		SS25				
SS26		SS26				
SS28		SS28				
SS210		SS210				
SS215		SS215				
SS220		SS220				

### Typical Characteristics

Fig.1 Forward Current Derating Curve

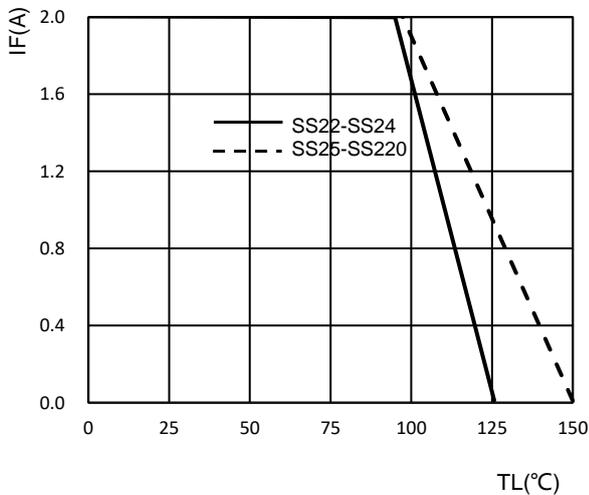
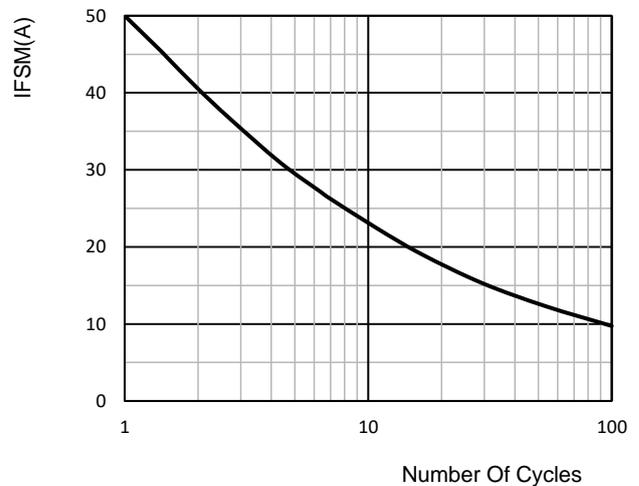
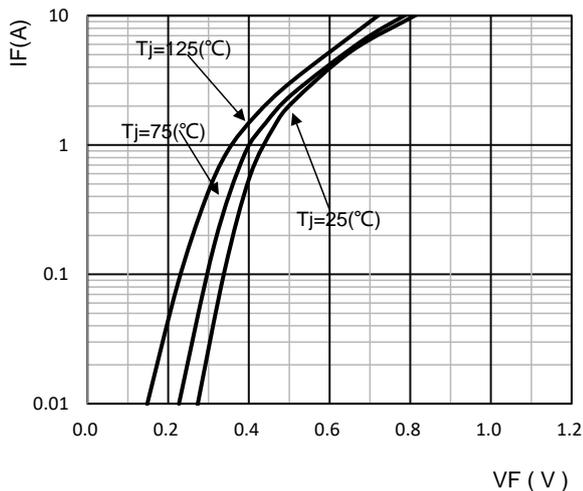


Fig.2 Maximum Non-Repetitive Forward Surge Current



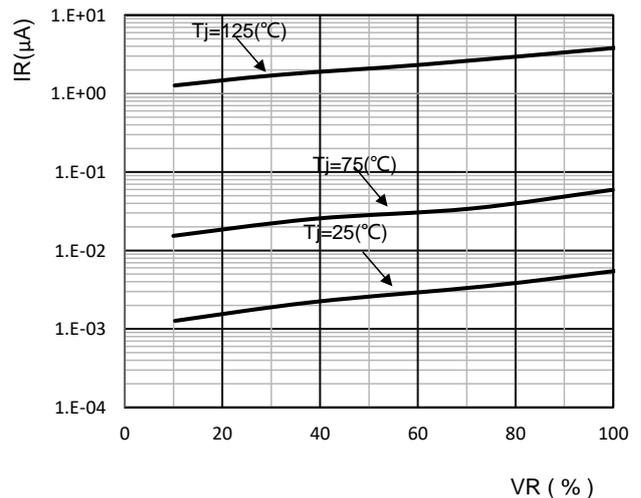
SS22-SS24

Fig.3 Typical Forward Characteristics



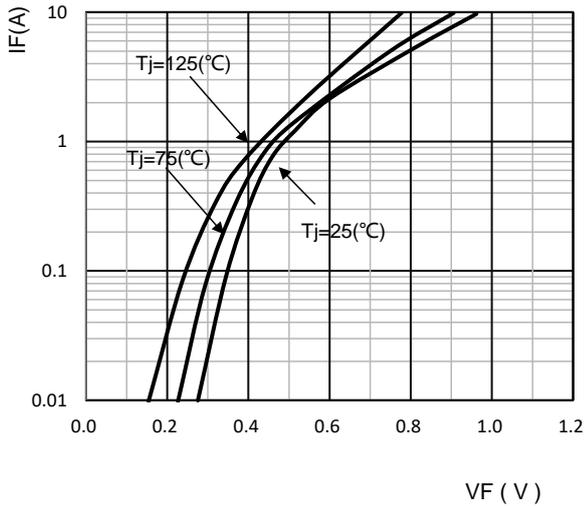
SS22-SS24

Fig.4 Typical Reverse Characteristics



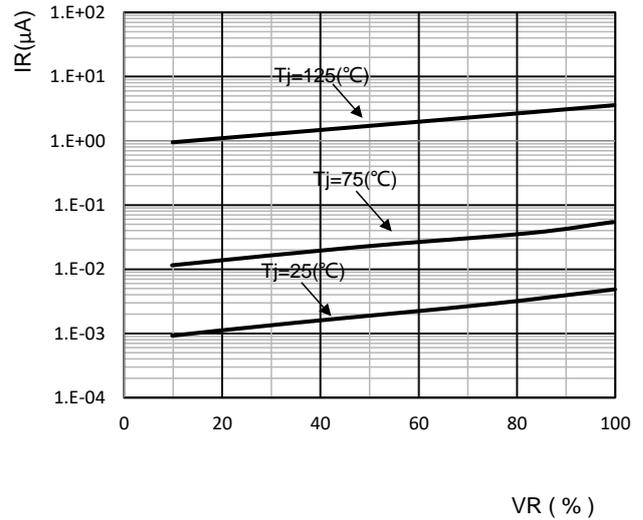
**SS25-SS26**

**Fig.5 Typical Forward Characteristics**



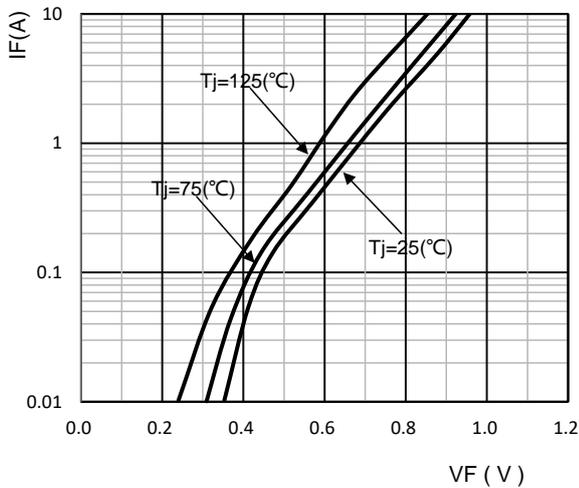
**SS25-SS26**

**Fig.6 Typical Reverse Characteristics**



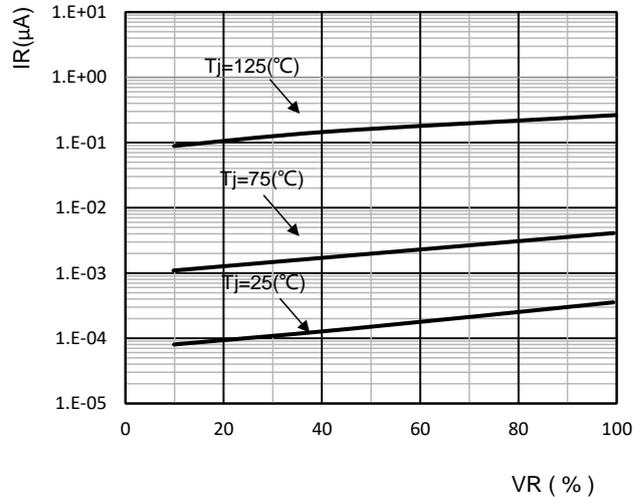
**SS28-SS210**

**Fig.7 Typical Forward Characteristics**



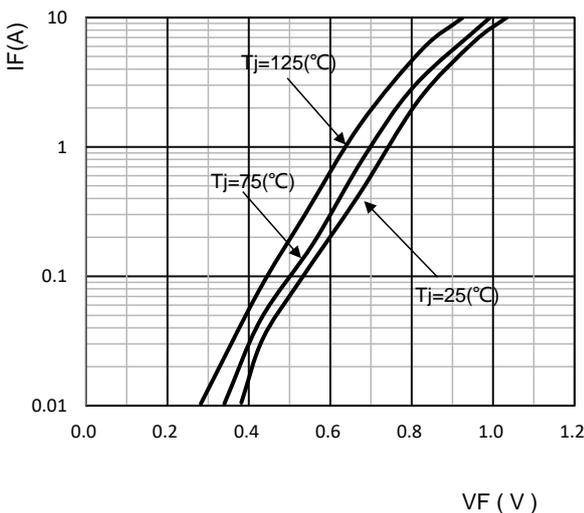
**SS28-SS210**

**Fig.8 Typical Reverse Characteristics**



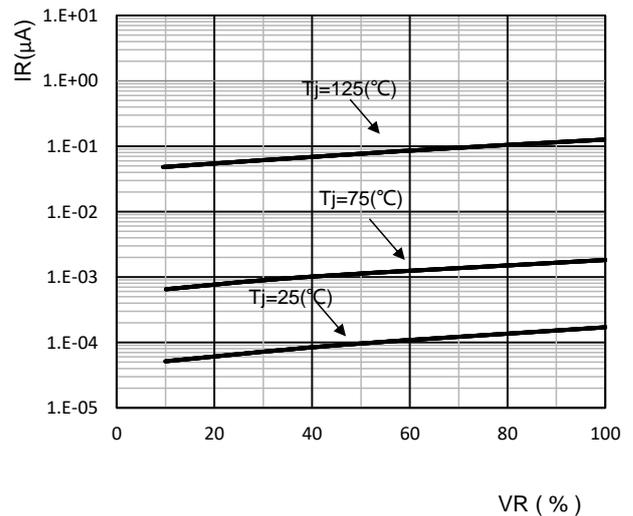
**SS215**

**Fig.9 Typical Forward Characteristics**



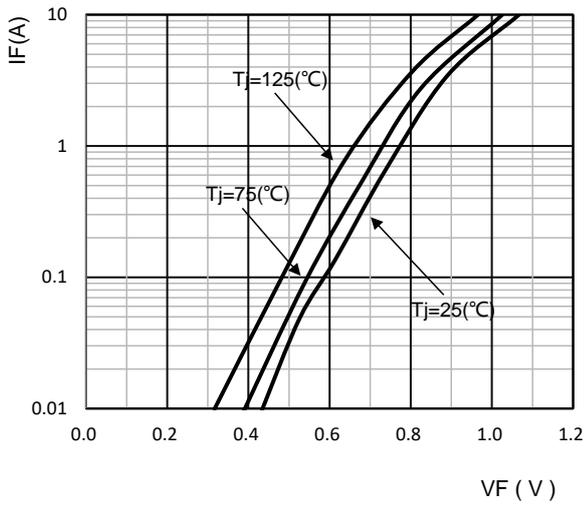
**SS215**

**Fig.10 Typical Reverse Characteristics**



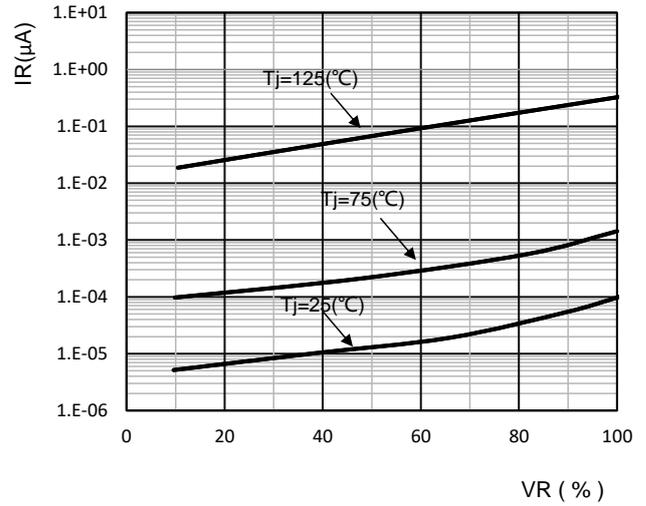
SS220

Fig.11 Typical Forward Characteristics



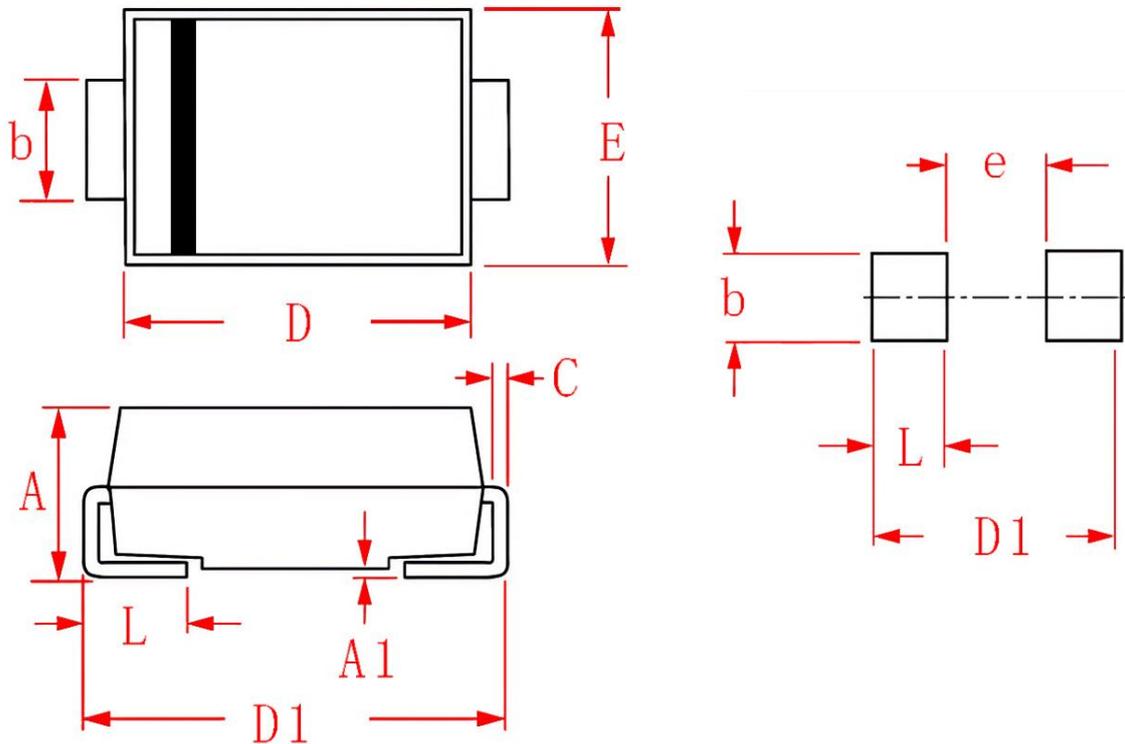
SS220

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