

Features

- $I_{F(AV)}$ 1A
- V_{RRM} 20~200V
- High surge current capability
- Polarity: Color band denotes cathode

Applications

- Rectifier

Marking

- SS1X

X: From 2 To 20



SMA top view



Schematic diagram



Halogen-Free

Limiting Values(Absolute Maximum Rating)

Symbol	Item	Test Conditions	SS1										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	1.0										A
I _{FSM}	Surge(Non-repetitive)Forward Current	60Hz Half-sine wave, 1 cycle,Ta=25℃	30										A
T _J	Junction Temperature		-55~+125				-55~+125					℃	
T _{stg}	Storage Temperature Range		-55~+150										℃

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

Symbol	Item	Test Condition		SS1								Unit
				2	3	4	5	6	8	10	15	
V _F	Peak Forward Voltage	I _F =1.0A		0.55		0.70		0.85		0.95		V
I _{RRM1}	Peak Reverse Current	V _{RM} =V _{RRM}	Ta =25℃	0.5				0.1				mA
I _{RRM2}		V _{RM} =V _{RRM}	Ta =100℃	10				5.0				
R _{θJA}	Thermal Resistance(Typical)	Between junction and ambient		65								℃/W
R _{θJL}		Between junction and lead		20								

Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
SS12	SMA	SS12	2,000	10,000	100,000	7"reel
SS13		SS13				
SS14		SS14				
SS15		SS15				
SS16		SS16				
SS18		SS18				
SS110		SS110				
SS115		SS115				
SS120		SS120				

Typical Characteristics

Fig.1 Forward Current Derating Curve

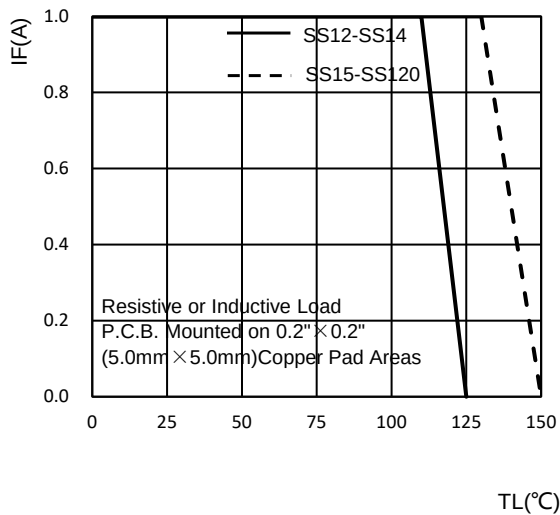


Fig.2 Maximum Non-Repetitive Forward Surge Current

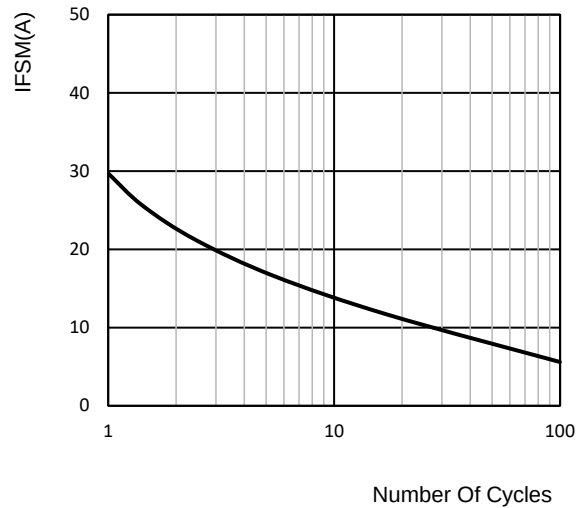


Fig.3 Typical Forward Characteristics

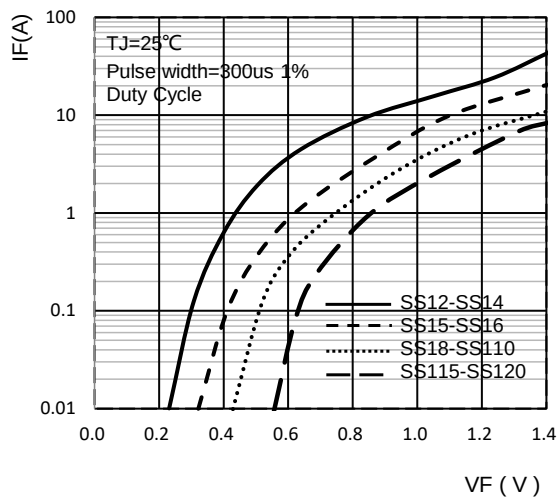
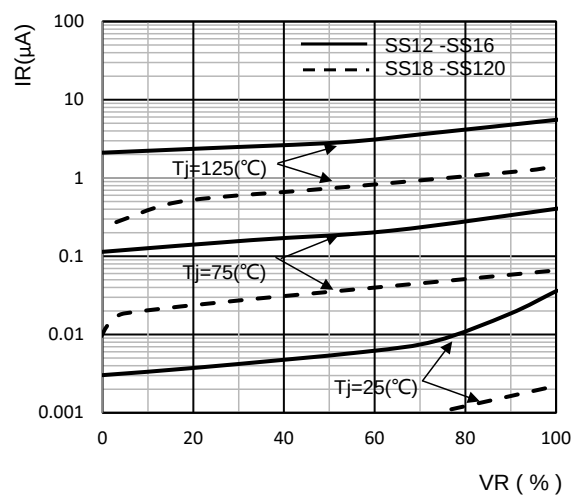
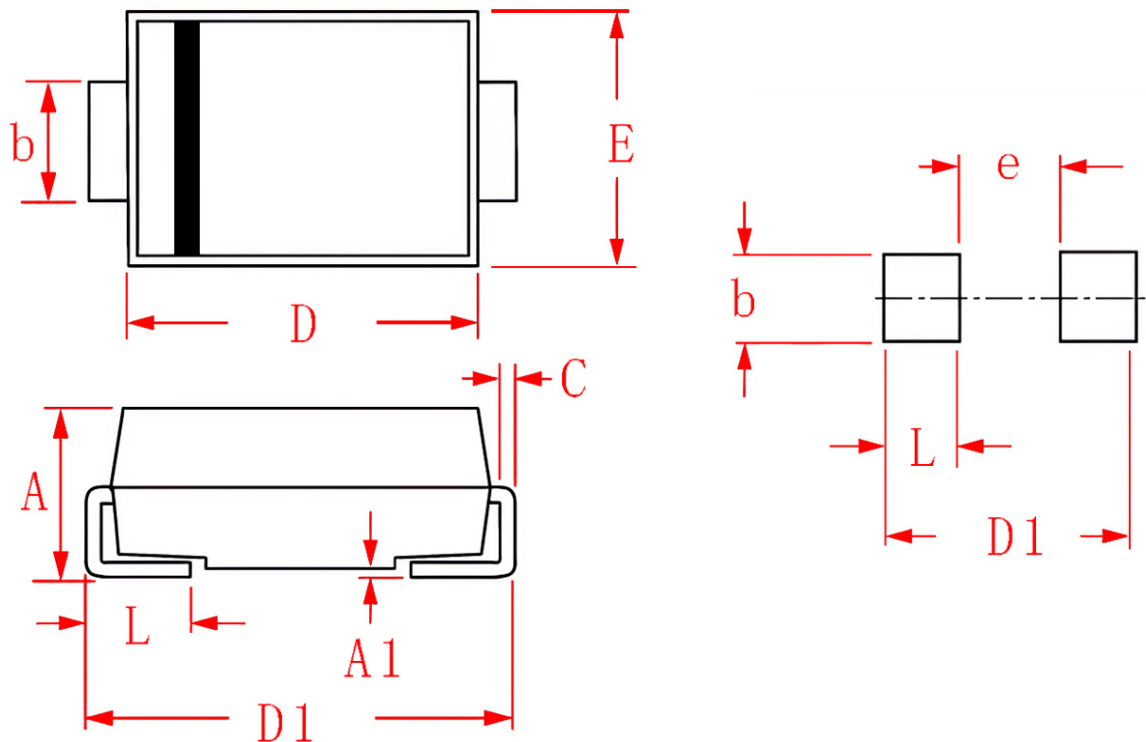


Fig.4 Typical Reverse Characteristics



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