Features

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

Applications

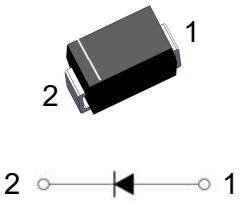
- Rectifier

Marking

- SS1X

  X：From 2 To 20

Symbol



DO-214AC/SMA

Limiting Values(Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	SS1								
				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, FIG.1	1.0								
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, Ta=25℃	30								
Junction Temperature	T_J	℃		-55~+125			-55~+150					
Storage Temperature	T_{STG}	℃		-55 ~ +150								

Electrical Characteristics (T_A=25℃ Unless otherwise specified)

Item	Symbol	Unit	Test Condition		SS1							
					2	3	4	5	6	8	10	15	20
Peak Forward Voltage	V_F	V	I_F=1.0A		0.55			0.70		0.85		0.95	
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	Ta=25℃	0.5					0.1			
	I_{RRM2}			Ta=100℃	10					5.0			
Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/W	Between junction and ambient		65								
	$R_{\theta J-L}$		Between junction and terminal		20								
Typical junction capacitance	C_J	pF	4.0V DC,1MHz		110			90					

Typical Characteristics

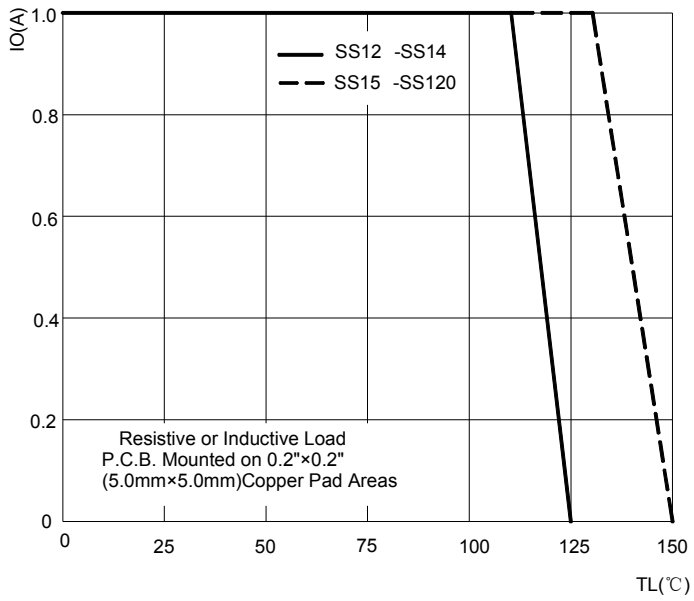


FIG.1: FORWARD CURRENT DERATING CURVE

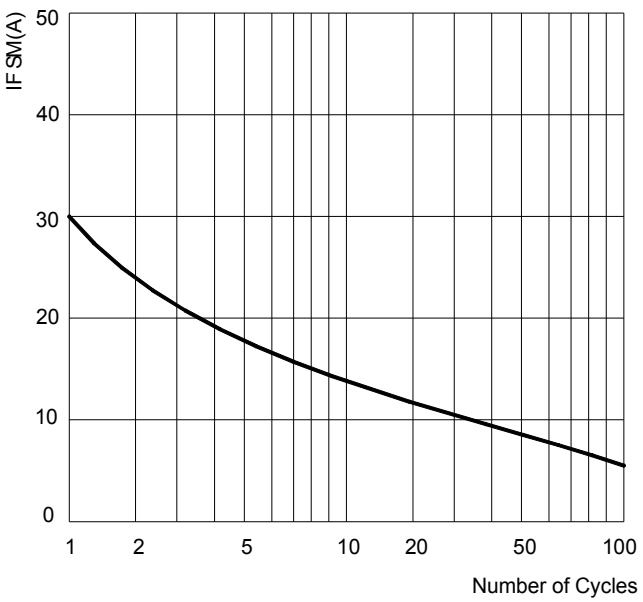


FIG2:Surge Forward Current Capadility

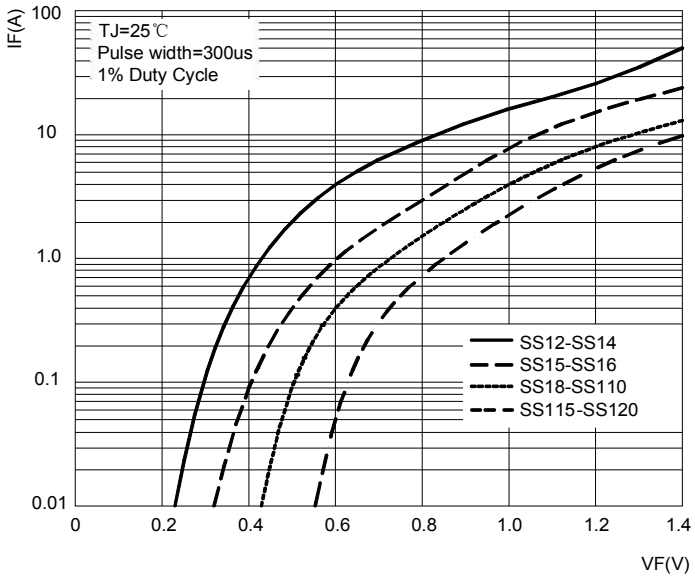


FIG.3: TYPICAL FORWARD CHARACTERISTICS

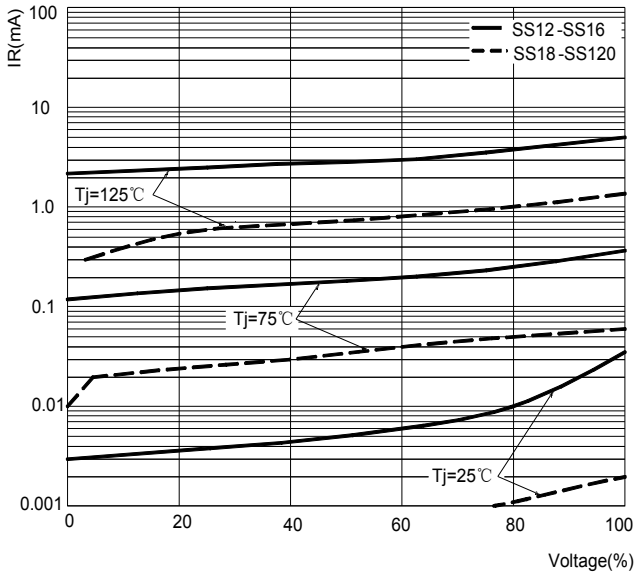
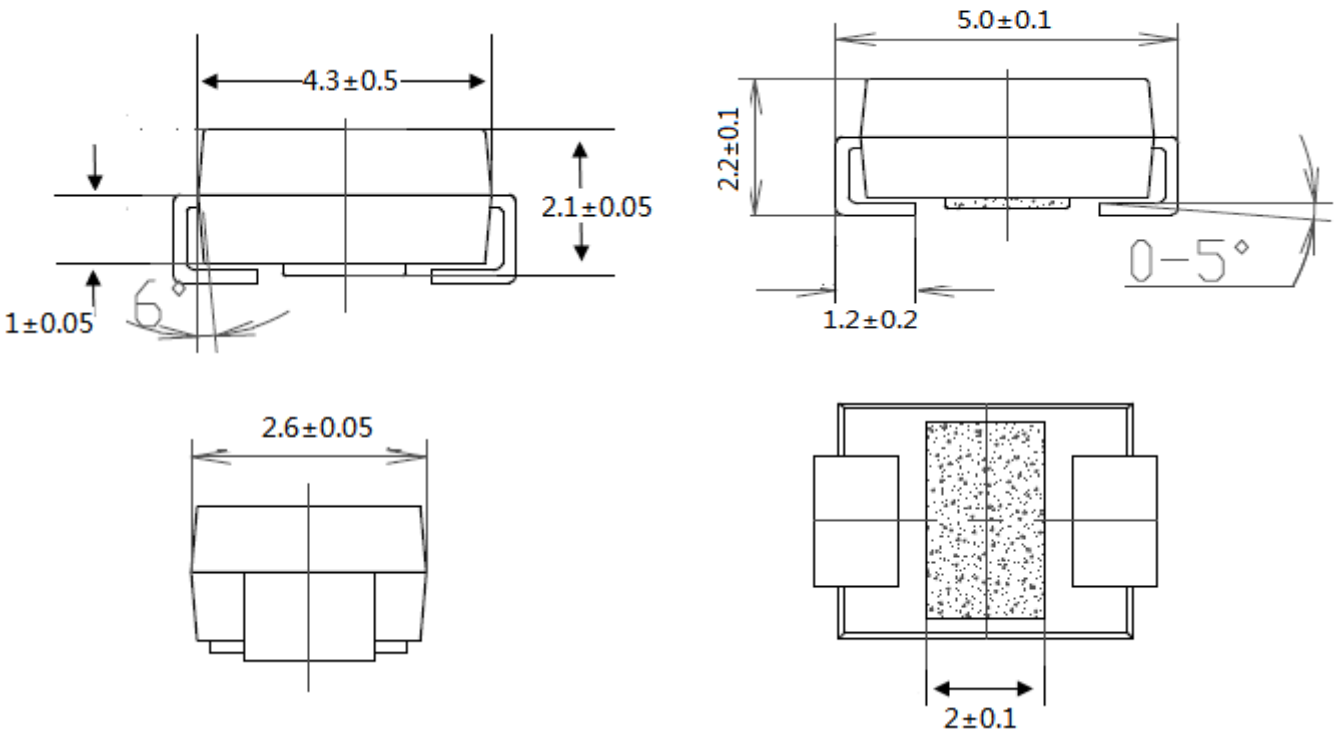
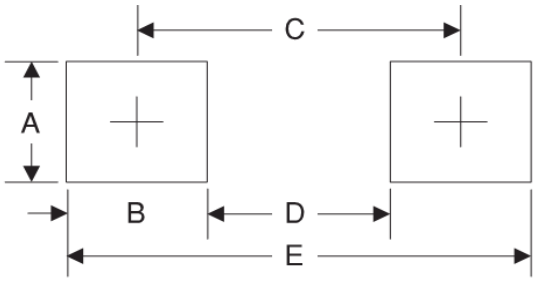


FIG.4：TYPICAL REVERSE CHARACTERISTICS

DO-214AC/SMA Package Outline Dimensions



Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
A	1.68	0.066
B	1.52	0.060
C	3.90	0.154
D	2.41	0.095
E	5.45	0.215

Package Specifications

Package	Reel Size	Reel DIA. (mm)	Q'TY/Reel (Kpcs)	Box Size (mm)	QTY/Box (Kpcs)	Carton Size (mm)	Q'TY/Carton (Kpcs)
SMA	11'	278	5	285	10	355*310*310	80
	13'	330	7.5	340	15	360*360*360	120

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