

## FEATURES

- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Built-in strain relief, ideal for automated placement
- Low power loss, high efficiency.
- High forward surge current capability
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0



DO-214AC (SMA)

## MECHANICAL DATA

- Case: DO-214AC (SMA)Molded plastic
- Terminals: Pure tin plated, lead free
- Polarity: Indicated by cathode band
- Weight: 0.064 gram(approx.)



Cathode

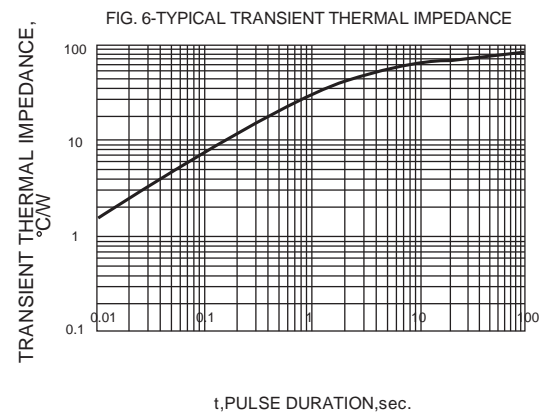
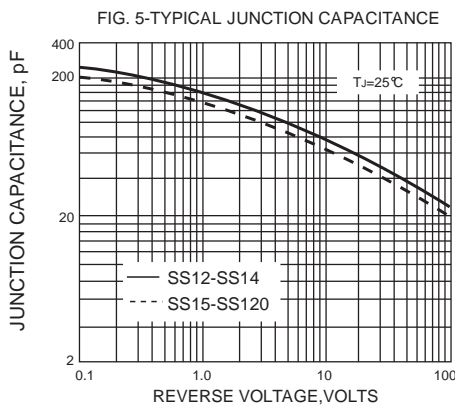
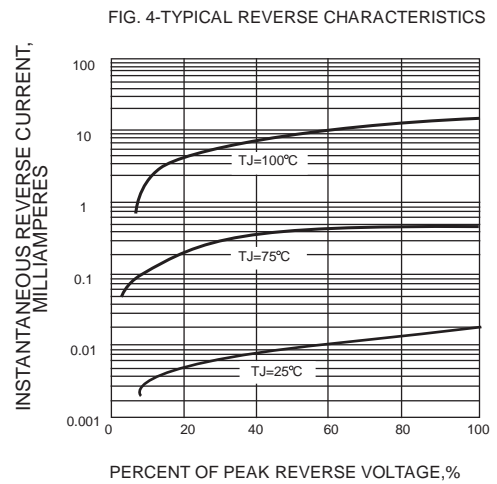
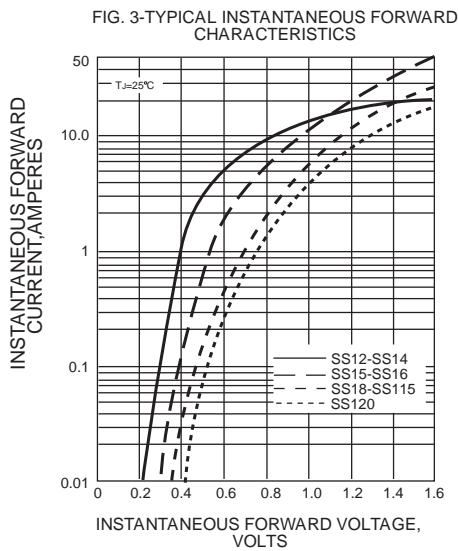
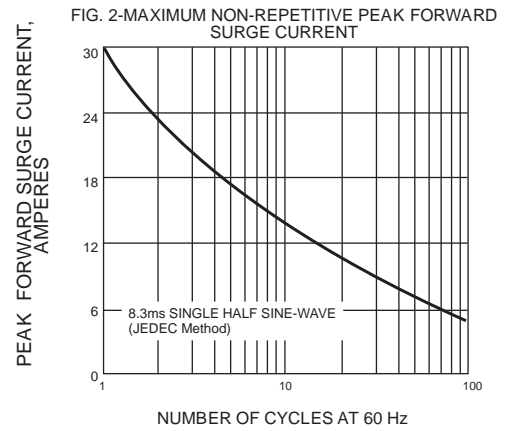
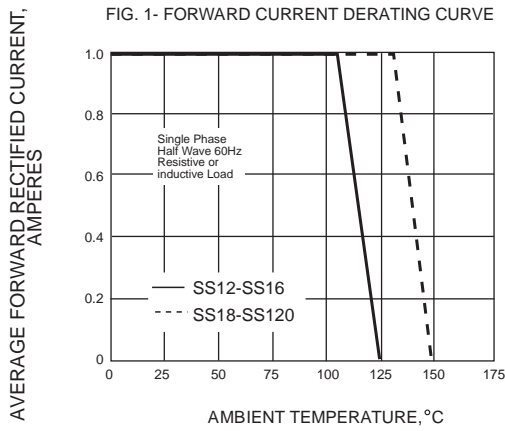
## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

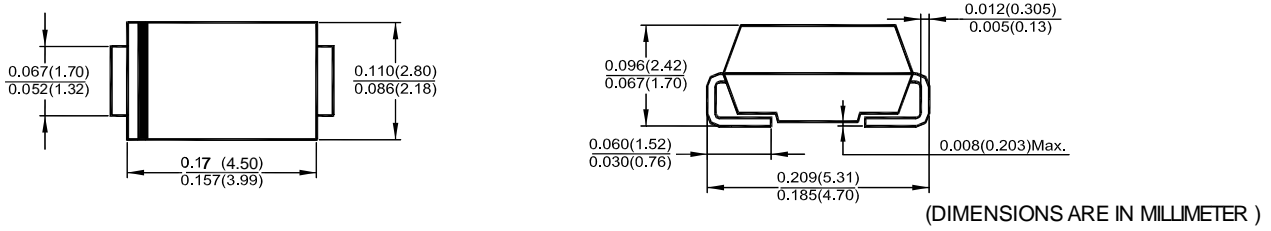
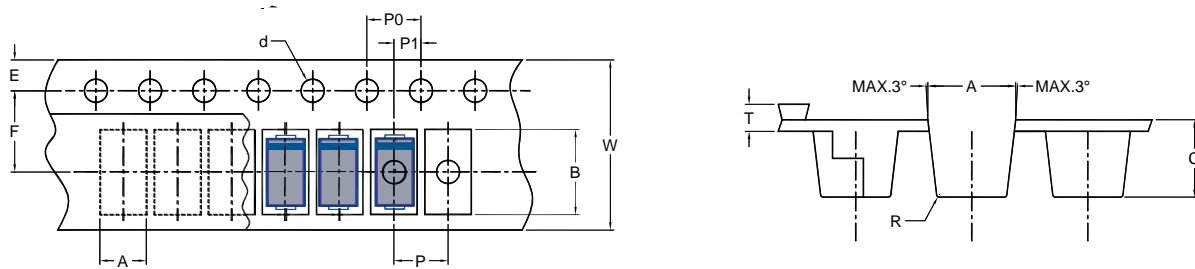
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave ,60Hz, resistive or inductive load.For capacitive load, derate current by 20%

Parameter	Symbol	SS 12	SS 13	SS 14	SS 15	SS 16	SS 18	SS 110	SS 115	SS 120	Unit	
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	V	
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	V	
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	V	
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1.0									A	
Peak Forward Surge Current 8.3 ms Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	30.0									A	
Maximum Instantaneous Forward Voltage at 1A	$V_F$	0.45	0.55	0.70	0.85	0.95						V
Maximum DC Reverse Current Cat Rated DC Blocking Voltage	$I_R$	@ $T_A = 25^\circ C$					@ $T_A = 100^\circ C$					
		0.5			0.2		10.0			5.0		2.0
Typical Junction Capacitance(Note1)	$C_j$	110			90						pF	
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	88									$^\circ C/w$	
Operating Temperature Range	$T_J$	-50 to +150									$^\circ C$	
Storage Temperature Range	$T_{STG}$	-50 to +150									$^\circ C$	

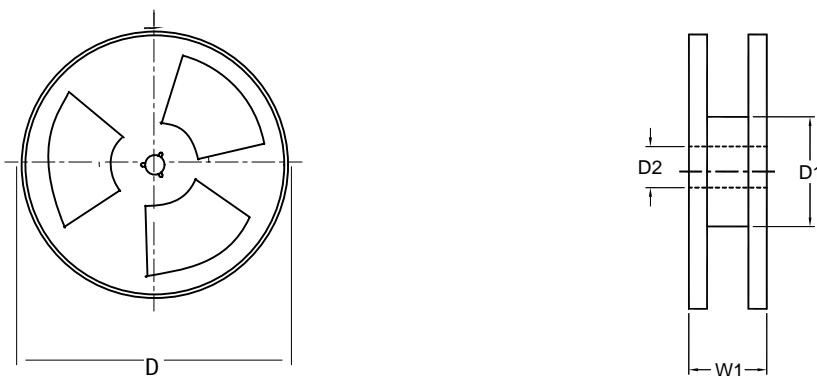
**Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.  
 2. P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

**Typical Characteristics**



**SMA Package Outline Dimensions**

**SMA Embossed Carrier Tape**


DIMENSIONS ARE IN MILLIMETER											
TYPE	A	B	C	d	E	F	P	P0	P1	T	W
SMA	3.0	5.4	2.4	1.5	1.5	5.65	4	4	2	0.3	12
TOLERANCE	±0.1	±0.1	±0.1	±0.1	±0.1	±0.05	±0.1	±0.1	±0.1	±0.05	±0.2

**SMA Reel**


DIMENSIONS ARE IN MILLIMETER				
REEL OPTION	D	D1	D2	W1
7" DIA	178	50 min.	13	16.8
TOLERANCE	±2	±0.1	±0.5	±2

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