

FEATURES

- Small Surface Mount device
- Low power loss, high efficiency
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Guard ring for over voltage protection
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications



SMA

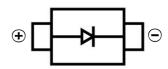
MECHANICAL DATA

Case: SMA(DO214AC)

• Case Material: Molded Plastic. UL flammability

Classification Rating: 94V-0

• Weight: 0.065 grams (approximate)



MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

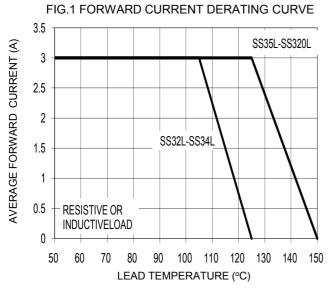
Parameter	Symbol	SS32A	SS33A	SS34A	SS36A	SS38A	SS310A	SS315A	SS320A	Unit
Repetitive peak reverse voltage V		20	30	40	60	80	100	150	200	V
DC Reverse Voltage	OC Reverse Voltage V _R		30	40	60	80	100	150	200	V
RMS Reverse Voltage	V_{RMS}	14	21	28	42	56	70	105	140	V
Non-Repetitive Peak Forward Surge Current @ t = 8.3 ms	I FSM	IFSM 80					Α			
Mean rectifying current	lf	IF 3.0				Α				
Thermal Resistance	$R_{\theta JA}$	R _{0JA} 85				°C/W				
Junction Temperature	Тл	T _J 150			°C					
Storage Temperature	Тѕтс	G -55 ~+175						°C		

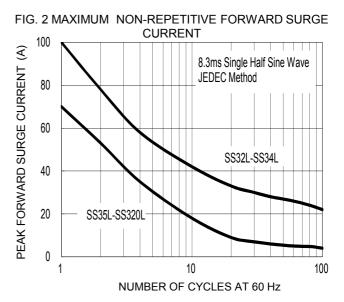
ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

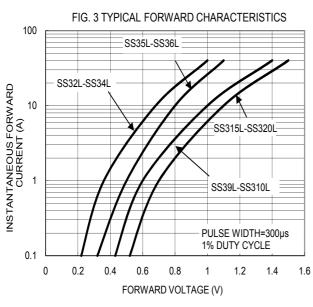
Parameter	Symbol	SS32A	SS33A	SS34A	SS36A	SS38A	SS310A	SS315A	SS320A	Unit	Conditions
Forward voltage	VF	0.55		0.7	0.85		0.95		V	I _F =3A	
Reverse current T=25°C	I _R		0.5						mA		
Reverse current T=100°C	I _R		20				mA	V=V _R			
Junction capacitance	CJ				16	30				рF	V=4V,f=1MHz

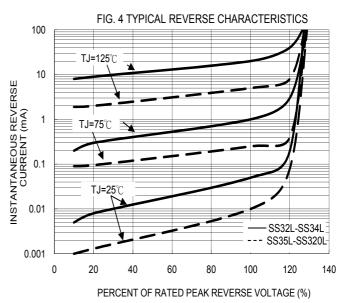


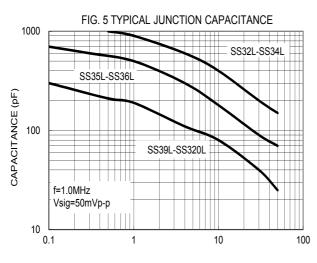
Typical Characteristics

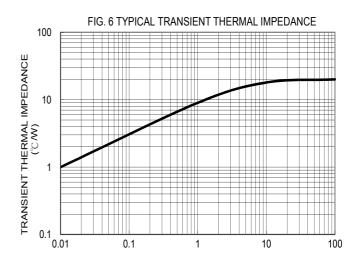






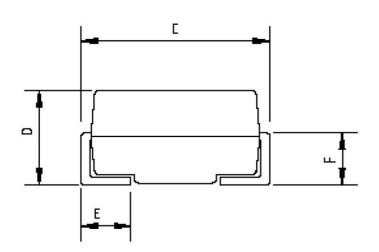


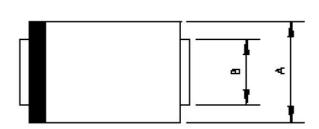






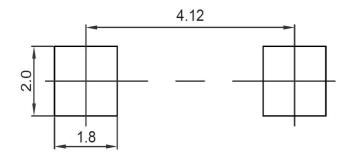
SMA Package Outline Dimensions





Symbol	Dimensions	In Millimeters	Dimensions In Inches			
	Min.	Max.	Min.	Max.		
А	2.20	2.80	0.086	0.110		
В	1.30	1.70	0.051	0.067		
С	4.70	5.30	0.185	0.209		
D	1.70	2.55	0.067	0.100		
E	0.90	1.50	0.035	0.059		
F	0.90	1.50	0.035	0.059		

SMA Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters

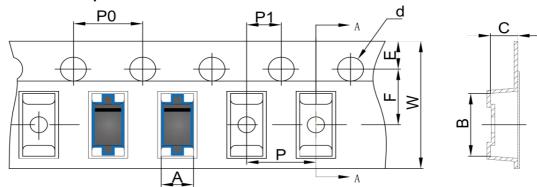
2.General tolerance: ±0.05mm

3. The pad layout is for reference purposes only



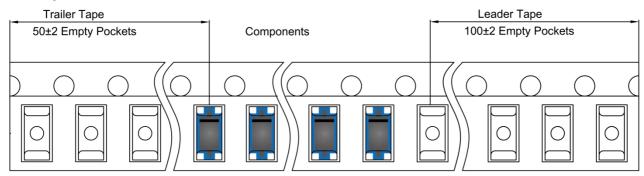
SMA Tape and Reel

SMA Embossed Carrier Tape

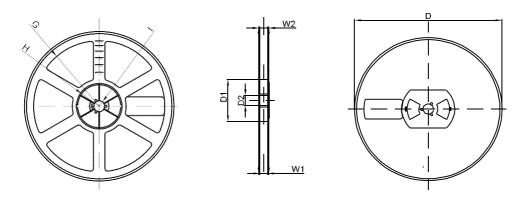


	DIMENSIONS ARE IN MILLIMETER									
TYPE	Α	В	С	d	E	F	P0	Р	P1	W
SMA	2.89	5.35	2.68	Ø1.50	1.75	5.50	4.00	4.00	2.00	12.00
TOLERANCE	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

SMA Tape Leader and Trailer



SMA Reel



	DIMENSIONS ARE IN MILLIMETER									
REEL OPTION	D	D1	D2	G	Н	I	W1	W2		
7" DIA	Ø178	54.40	13.00	R78	R25.60	R6.50	12.40	17.60		
TOLERANCE	±2	±1	±1	±1	±1	±1	±1	±1		