

FEATURES

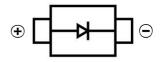
- Glass Passivated Die Construction
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Surface Mount device

MECHANICAL DATA

- Case: SMA(DO-214AC)
- Case Material: Molded Plastic. UL flammability
- Classification Rating: 94V-0
- Weight: 0.065 grams (approximate)



SMA



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

Parameter	Symbol	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	Unit
Maximum Recurrent Peak Reverse Voltage	se Voltage V _{RRM} 50 100 200 400 600 800 1000				V				
DC Blocking Reverse Voltage	V_R	50 100 200 400 600 800 1000				1000	V		
RMS Reverse Voltage	V _{R(RMS)}	35 70 140 280 420 560 700				700	V		
Maximum Average Forward Rectified Current	lF	2.0					Α		
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I FSM		50					Α	
Reverse Recovery Time (@IF=0.5A, I _R =1.0A,I _{RR} =0.25A)	trr	150 250 500			00	nS			
Thermal Resistance From Junction To Ambient	R _{θJA}	40			°C/\//				
Thermal Resistance From Junction To Lead	R _{θJL}	18				°C/W			
Junction and Storage Temperature	Т _J ,Тsтс	-55 ~+150						°C	

ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}$ C unless otherwise specified)

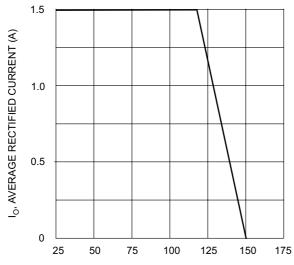
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Forward voltage	VF			1.3	V	I _F =2.0A
Reverse current				5		V _R =V _{RRM}
	IR			200	uA	V _R =V _{RRM} , T _a =125°C
Diode capacitance	C _D		30		pF	V _R =4V,f=1MHz

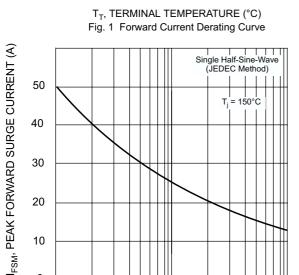


Typical Characteristics

0

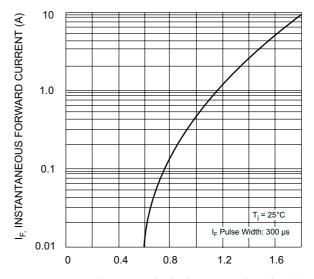
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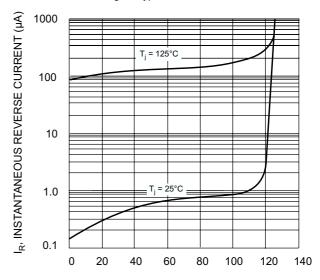


NUMBER OF CYCLES AT 60 Hz Fig. 3 Forward Surge Current Derating Curve

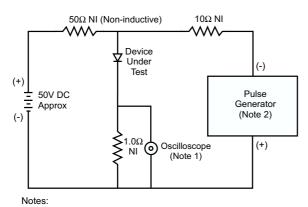
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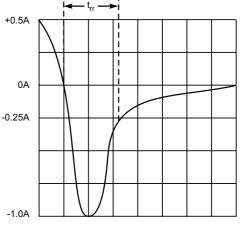
V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 4, Typical Reverse Characteristics



- 1. Rise Time = 7.0ns max. Input Impedance = 1.0M Ω , 22pF.
- 2. Rise Time = 10ns max. Input Impedance = 50Ω .



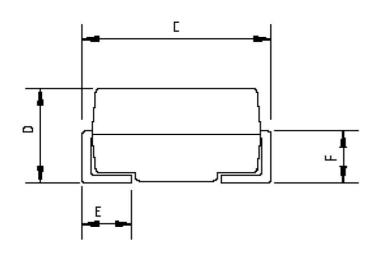
Set time base for 50/100 ns/cm

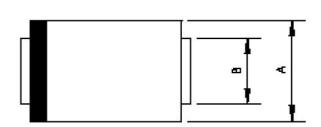
Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

100



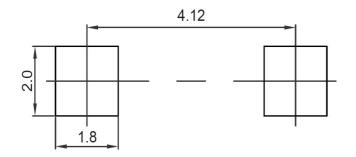
SMA Package Outline Dimensions





Symbol	Dimensions	In Millimeters	Dimensions In Inches			
	Min.	Max.	Min.	Max.		
A	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		
Е	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

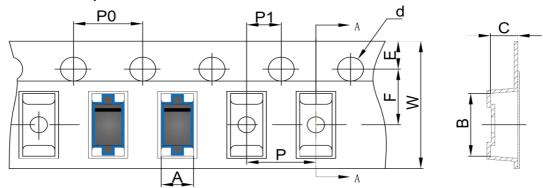
2.General tolerance: ±0.05mm

3. The pad layout is for reference purposes only



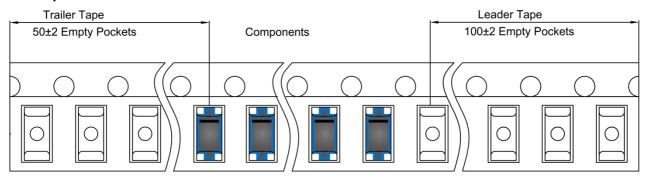
SMA Tape and Reel

SMA Embossed Carrier Tape

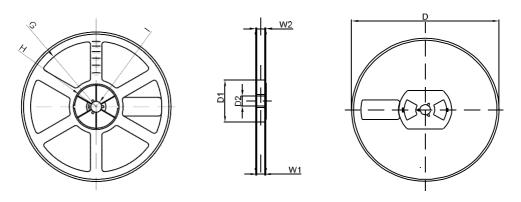


	DIMENSIONS ARE IN MILLIMETER									
TYPE	Α	A B C d E F P0 P P1							W	
SMA	2.89	5.35	2.68	Ø1.50	1.75	5.50	4.00	4.00	2.00	12.00
TOLERANCE	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

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	