

FEATURES

- Low Forward Voltage
- Surface Mount device
- For use in low voltage high frequency inverters and polarity protection applications



SOD-323

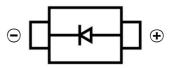
MECHANICAL DATA

• Case: SOD-323

• Case Material: Molded Plastic. UL flammability

Classification Rating: 94V-0

• Weight: 0.005 grams (approximate)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

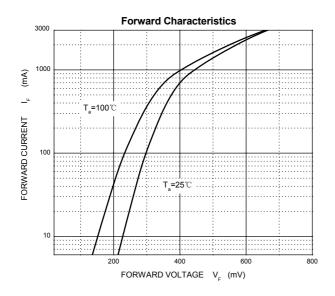
	1N5817WS	1N5818WS	1N5819WS	UNITS
Maximum Recurrent Peak Reverse Voltage	20	20 30		V
Maximum RMS Voltage	14	21	28	V
Maximum DC Blocking Voltage	20	20 30 40		V
Maximum Average Forward Rectified Current		1.0		Α
Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load 25				А
(JECEC method) T _L =70 °C				
Maximum Forward Voltage at 1.0A DC	0.45	0.55	0.60	V
Maximum Forward Voltage at 3.0A DC	0.75	0.875	0.90	V
Maximum Average DC Reverse Current T _A =25 °C		0.5		mA
at Rated Reverse Voltage T _A =100 °C	10			mA
Typical Junction capacitance (Note 1)		110		₽F
Typical Thermal Resistance(Note 2)		80		°C/W
Operating and Storage Temperature Range		-50 to +125		°C

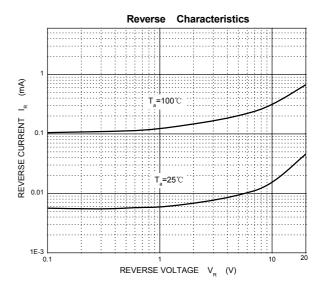
NOTES:

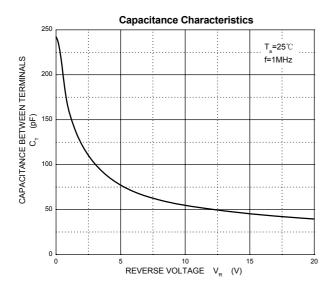
- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 2. Thermal Resistance Junction to Ambient

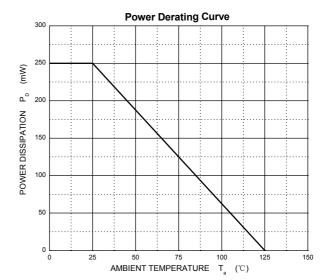


Typical Characteristics



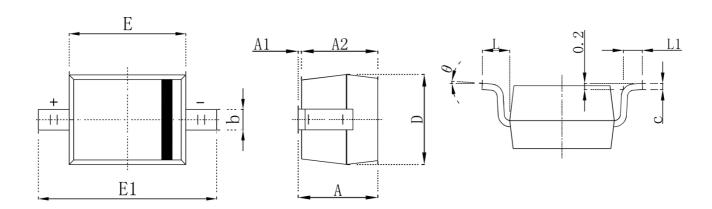






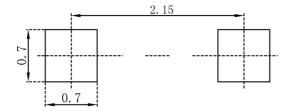


SOD-323 Package Outline Dimensions



Symbol	Dimensions	n Millimeters	Dimensions In Inches			
	Min.	Max.	Min.	Max.		
Α		1.000		0.039		
A1	0.000	0.100	0.000	0.004		
A2	0.800	0.900	0.031	0.035		
b	0.250	0.350	0.010	0.014		
С	0.080	0.150	0.003	0.006		
D	1.200	1.400	0.047	0.055		
Е	1.600	1.800	0.063	0.071		
E1	2.250	2.750	0.100	0.108		
L	0.475	REF	0.019 REF			
L1	0.250	0.400	0.010	0.016		
θ	0°	8°	0°	8°		

SOD-323 Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters

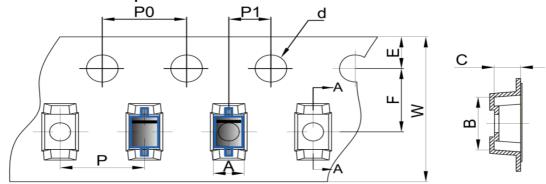
2.General tolerance: ±0.05mm

3. The pad layout is for reference purposes only



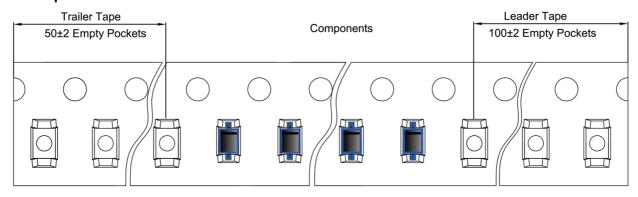
SOD-323 Tape and Reel

SOD-323 Embossed Carrier Tape

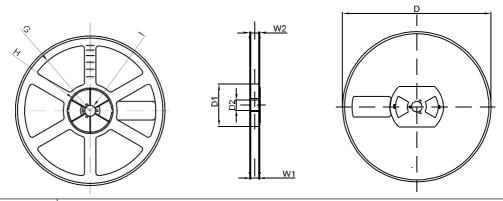


	DIMENSIONS ARE IN MILLIMETER									
TYPE	Α	В	С	d	Е	F	P0	Р	P1	W
SOD-323	1.48	3.3	1.25	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00
TOLERANCE	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

SOD-323 Tape Leader and Trailer



SOD-323 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	9.50	12.30
TOLERANCE	±2	±1	±1	±1	±1	±1	±1	±1