## FEATURES

- For surface mounted applications
- Glass Passivated Chip Junction
- Fast reverse recovery time
- Ideal for automated placement
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: SOD-323W
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 5.48mg / 0.00019oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

Simplified outline SOD-323W and symbol
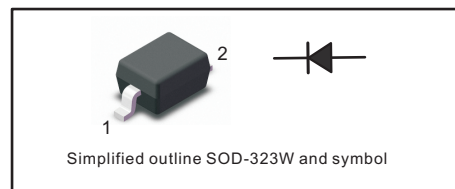
Absolute Maximum Ratings at 25 °C

Parameter		Symbols	T-1N4148WB	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	100	V
Maximum RMS voltage		V_{RMS}	75	V
Average Rectified Forward Current		$I_{F(AV)}$	150	mA
Non-reptitive Peak Forward Surge Current	at 1s at 1ms at 1us	I_{FSM}	0.5 1 4	A
Total Power Dissipation		P_{tot}	400	mW
Operating and Storage Temperature Range		T_j, T_{stg}	-55 ~ +150	°C

Characteristics at T_a = 25 °C

Parameter		Symbols	T-1N4148WB	Units
Reverse BreakdownVoltage at I_R=1µA		$V_{(BR)R}$	75	V
Maximum Forward Voltage	at 1 m A at 10 m A at 50 m A at 150 m A	V_F	0.715 0.855 1.00 1.25	V
Peak Reverse Current	at V_R=20V T_j=25°C at V_R=75V T_j=25°C at V_R=25V T_j=150°C at V_R=75V T_j=150°C	I_R	0.025 1 30 50	µA
Typical Junction Capacitance f=1MHz,V_R=0V		C_j	2	pF
Maximum Reverse Recovery Time [1]		t_{rr}	4	ns

(1) Measured with I_F=I_R=10mA,Irr=0.1xI_R,R_L=100Ω

Fig.1 Power Derating Curve

Total Power Dissipation (mW) vs Ambient Temperature (°C)
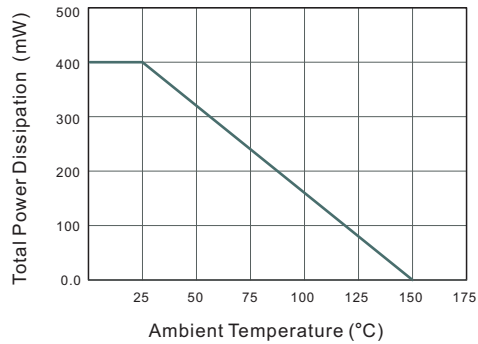
Fig.2 Typical Reverse Characteristics

Instaneous Reverse Current (μA) vs percent of Rated Peak Reverse Voltage (%)

$T_J=150°C$

$T_J=25°C$
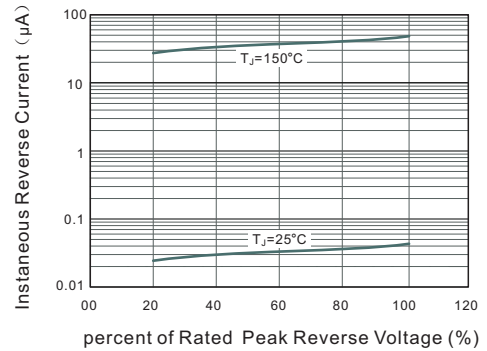
Fig.3 Typical Instaneous Forward Characteristics

Instaneous Forward Current (mA) vs Instaneous Forward Voltage (V)

$T_J=25°C$

Fig.4 Typical Junction Capacitance

Junction Capacitance (pF) vs Reverse Voltage (V)

$T_J=25°C$
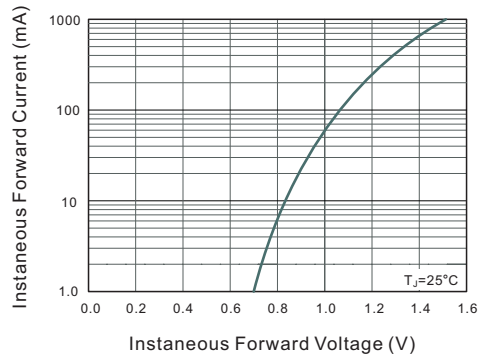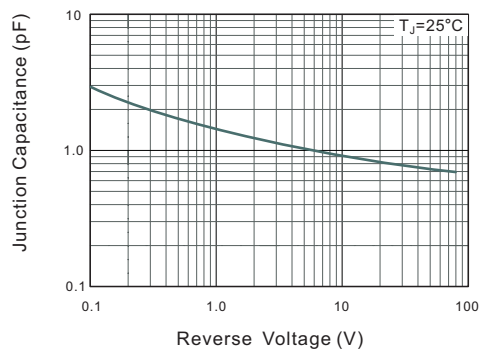
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323W

∠ALL ROUND

SOD-323W mechanical data

UNIT		A	C	D	E	E$_1$	b	L$_1$	A$_1$	∠
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—	
mil	max	43	5.9	55	70	108	16	16	8	
	min	32	3.1	47	63	100	9.8	7.9	—	
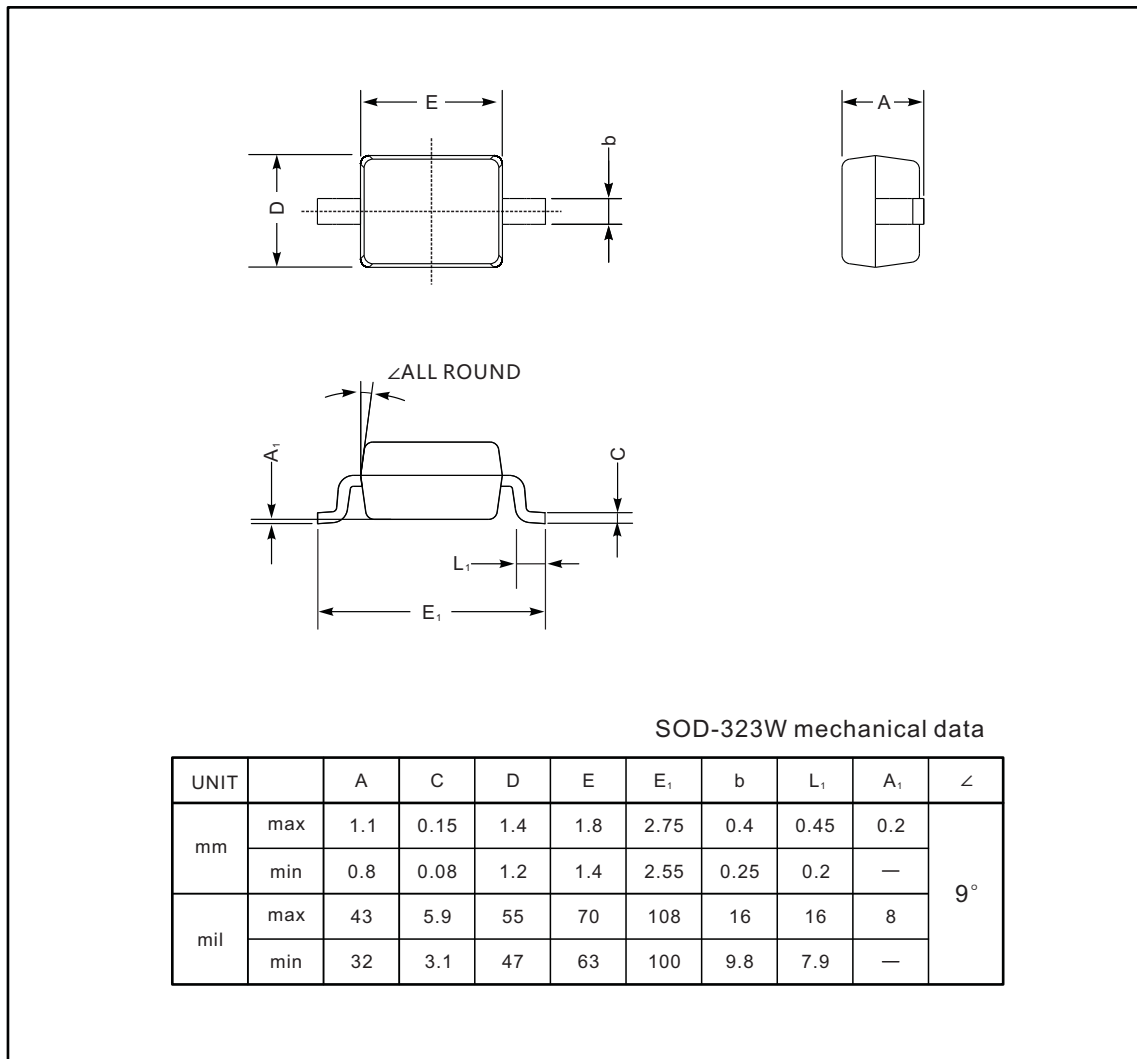
The recommended mounting pad size

1.2 (47)   1.4 (55)   1.2 (47)

1.2 (47)

Unit: $\frac{mm}{(mil)}$
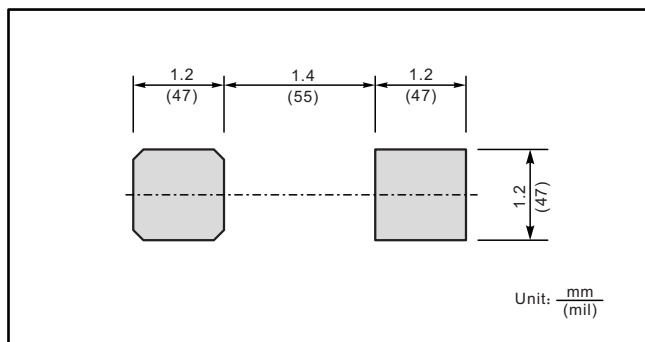
Marking

Type number	Marking code
T-1N4148WB	T4

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