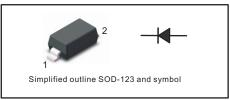


PINNING

PIN	DESCRIPTION	
1	Cathode	
2	Anode	



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-123
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Approx. Weight: 16mg/0. 00056oz

Absolute Maximum Ratings at 25 °C

Parameter	Symbols	1N4148W	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS voltage	V_{RMS}	75	V
Continuous Forward Current	I _F	300	mA
Non-reptitive Peak Forward Surge Current at 1ms	I _{FSM}	4	Α
Total Power Dissipation	P _{tot}	400	mW
Operating and Storage Temperature Range	T_{j},T_{stg}	-55 ~ +150	°C

Characteristics at Ta = 25 °C

Parameter Reverse BreakdownVoltage at I _R =1µA		Symbols	1N4148W	Units
		V _{(BR)R}	75	V
Maximum Forward Voltage	at 1 m A at 10 m A at 50 m A at 150 m A at 300 mA	V _F	0.715 0.855 1.00 1.25 1.5	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	μΑ
Typical Junction Capacitance f=1MHz,VR=4V		Cj	5	pF
Maximum Reverse Recovery Time (1)		t _{rr} Typical	8	ns

^(1) Measured with IF = 0.5 A, IR = 1 A, Irr = 0.25 A



Fig.1 Power Derating Curve

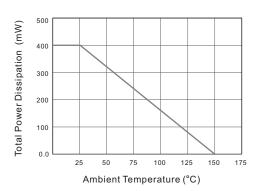


Fig.2 Typical Reverse Characteristics

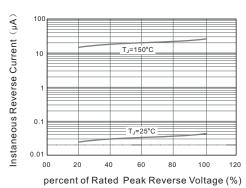


Fig.3 Typical Instaneous Forward Characteristics

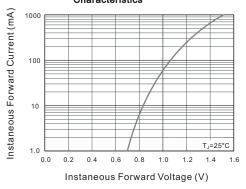
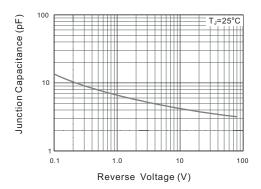


Fig.4 Typical Junction Capacitance

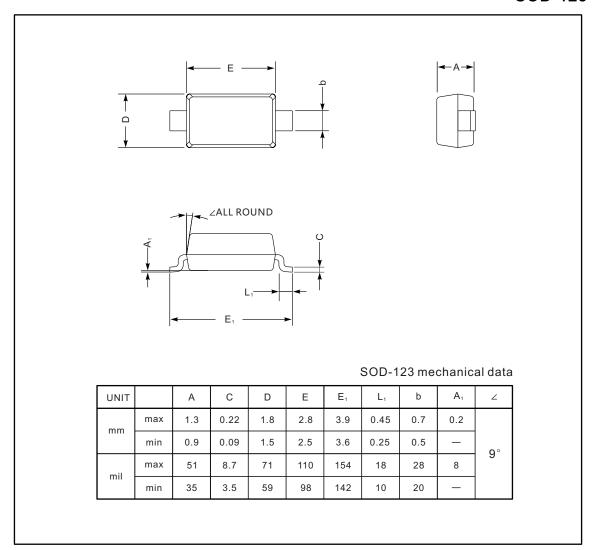




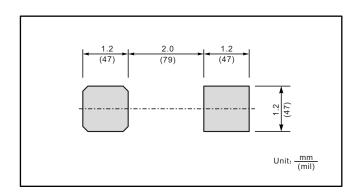
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



The recommended mounting pad size



Marking

Type number	Marking code
1N4148W	T4