



### FEATURES

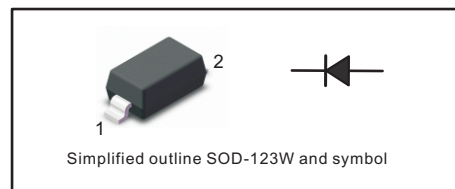
- For surface mounted applications
- Fast reverse recovery time
- Ideal for automated placement

### MECHANICAL DATA

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

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Absolute Maximum Ratings at 25 °C

Parameter	Symbols	T-1N4148W	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	$I_{FSM}$	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 $T_a = 25\text{ °C}$

Parameter	Symbols	T-1N4148W	Units
Reverse Breakdown Voltage at $I_R = 1\mu A$	$V_{(BR)R}$	75	V
Maximum Forward Voltage	$V_F$	0.715 0.855 1.00 1.25	V
Peak Reverse Current	$I_R$	0.025 1 30 50	$\mu A$
Typical Junction Capacitance	$C_j$	2	pF
Maximum Reverse Recovery Time <sup>(1)</sup>	$t_{rr}$	4	ns

(1) Measured with  $I_F = I_R = 10\text{mA}$ ,  $I_{rr} = 0.1 \times I_R$ ,  $R_L = 100\Omega$



Fig.1 Power Derating Curve

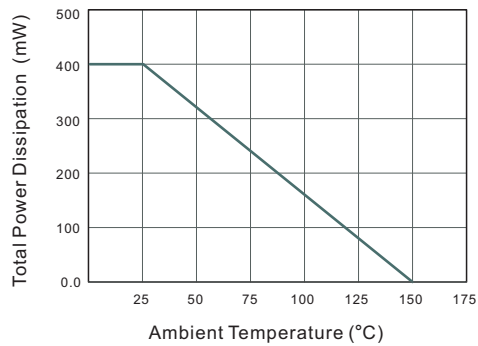


Fig.2 Typical Reverse Characteristics

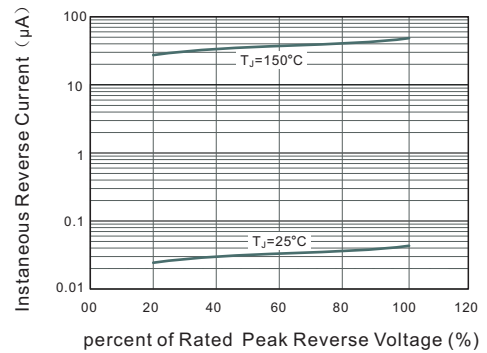


Fig.3 Typical Instaneous Forward Characteristics

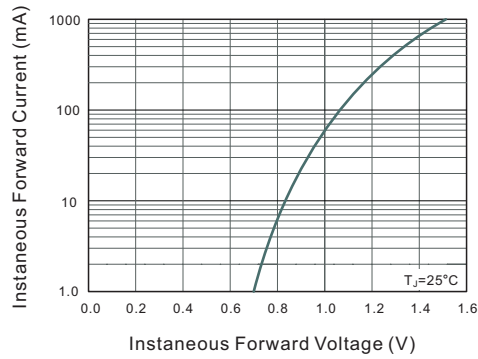
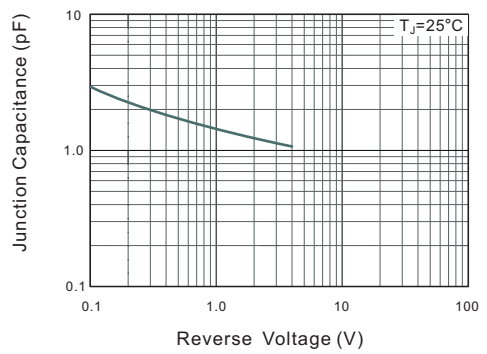


Fig.4 Typical Junction Capacitance

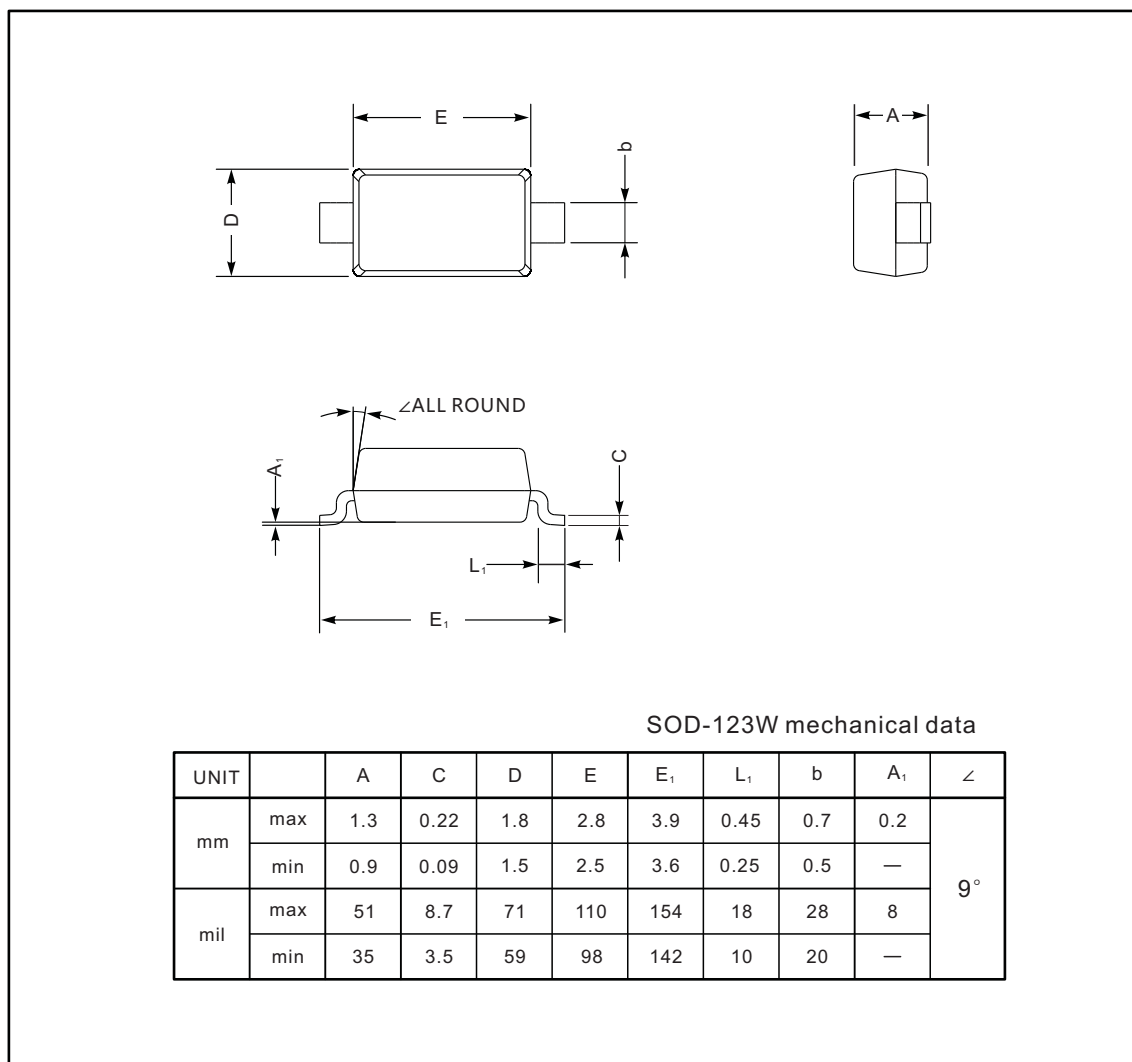




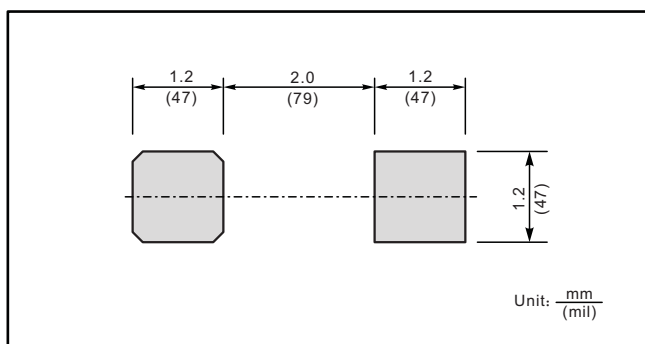
### PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123W



### The recommended mounting pad size



### Marking

Type number	Marking code
T-1N4148W	T4