



### FEATURES

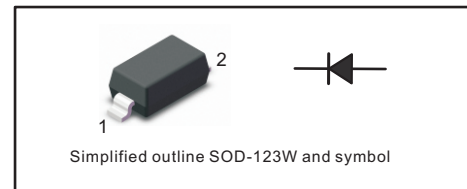
- For surface mounted applications
- Fast reverse recovery time
- Ideal for automated placement

### 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-1N4148WA	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
		at 1s	
		at 1ms	
		at 1us	
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-1N4148WA	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
		at 1 mA	
		at 10 mA	
		at 50 mA	
		at 150 mA	
Peak Reverse Current	$I_R$	0.025 1 30 50	$\mu A$
		at $V_R=20V$ $T_j=25\text{ °C}$	
		at $V_R=75V$ $T_j=25\text{ °C}$	
		at $V_R=25V$ $T_j=150\text{ °C}$	
		at $V_R=75V$ $T_j=150\text{ °C}$	
Typical Junction Capacitance	$C_j$	2	pF
		f=1MHz, $V_R=0V$	
Maximum Reverse Recovery Time <sup>(1)</sup>	$t_{rr}$	4	ns

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



Fig.1 Power Derating Curve

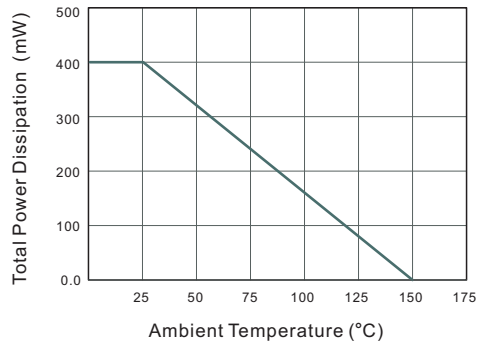


Fig.2 Typical Reverse Characteristics

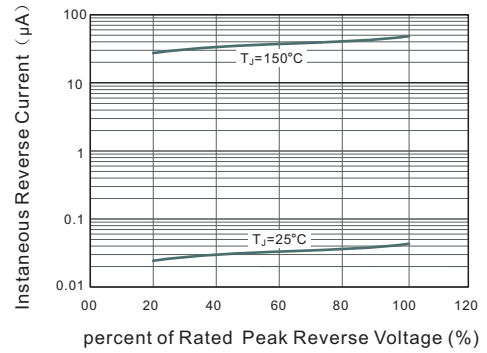


Fig.3 Typical Instantaneous Forward Characteristics

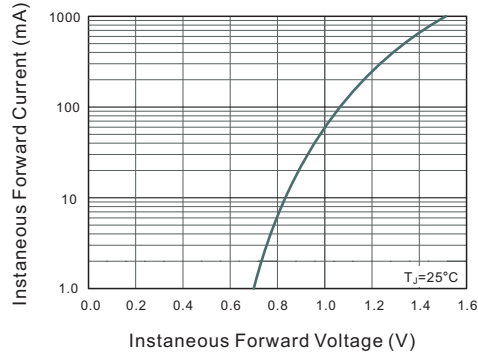
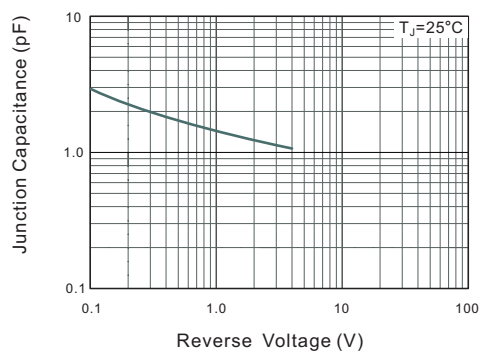


Fig.4 Typical Junction Capacitance

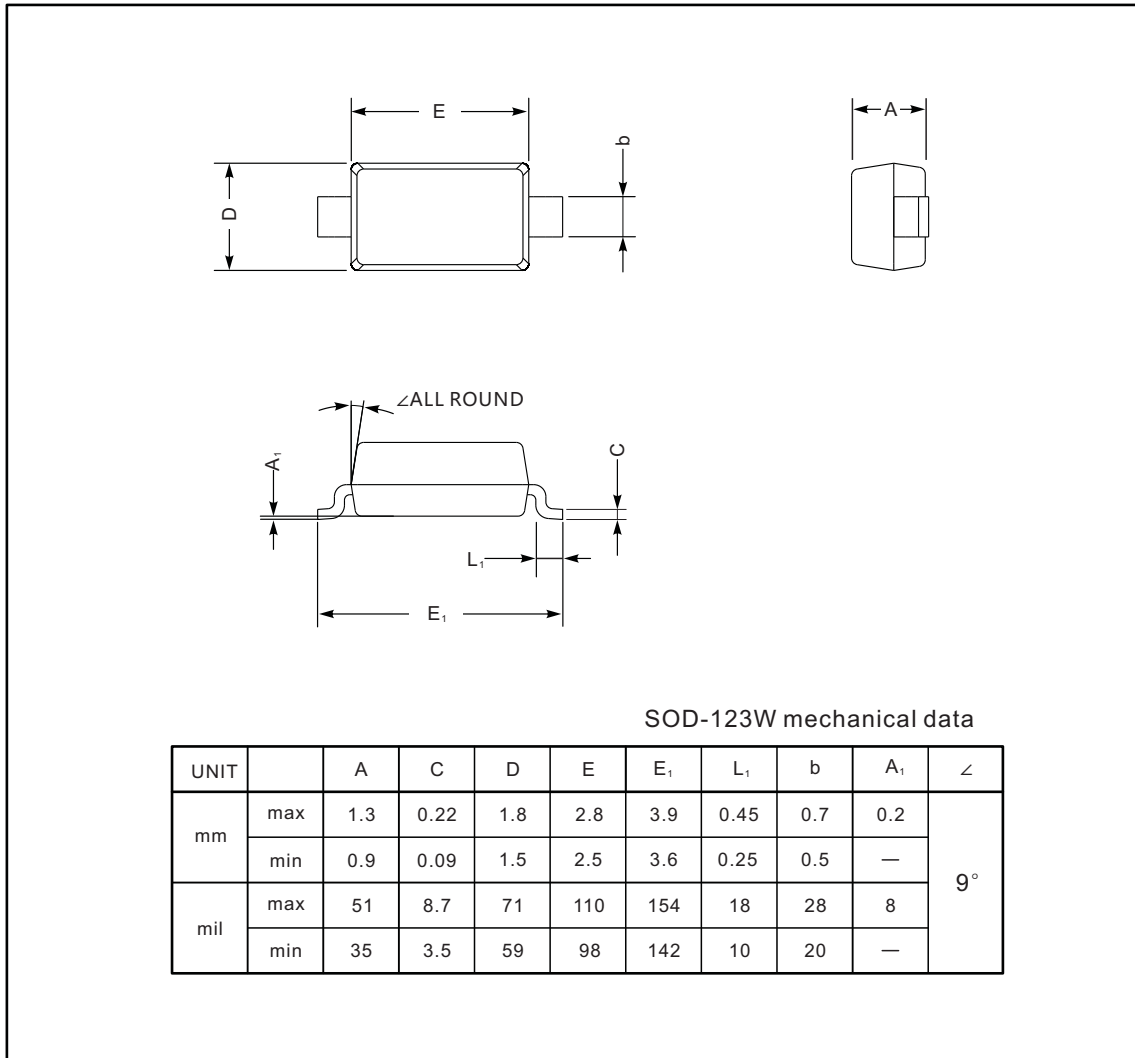




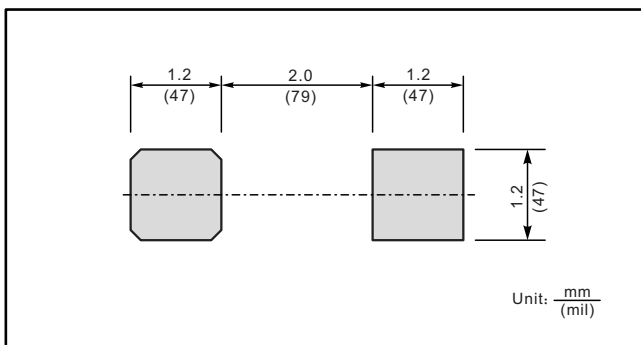
**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

SOD-123W



**The recommended mounting pad size**



**Marking**

Type number	Marking code
T-1N4148WA	T4

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Diodes - General Purpose, Power, Switching category](#):*

*Click to view products by [Jingdao manufacturer](#):*

Other Similar products are found below :

[MMBD3004S-13-F](#) [1N3611](#) [NTE156A](#) [NTE6244](#) [1SS400CST2RA](#) [SDAA13](#) [SHN2D02FUTW1T1G](#) [1N4449](#) [1N456A](#) [1N914BTR](#)  
[D291S45T](#) [BAS 16-02L E6327](#) [BAS 16-02V H6327](#) [BAS 21U E6327](#) [BAS 28 E6327](#) [BAW56DWQ-7-F](#) [BAW56M3T5G](#) [BAW75-TAP](#)  
[MM230L-CAA](#) [IDW40E65D1](#) [JAN1N3600](#) [JAN1N4454UR-1](#) [SMMSD4148T3G](#) [BYW95B/A52A](#) [NSVDAN222T1G](#) [CDSZC01100-HF](#)  
[BAV70HDW-7](#) [BAS28-7](#) [JANTX1N6640](#) [BAW56HDW-13](#) [BAS28 TR](#) [VS-HFA04SD60STR-M3](#) [1SS388-TP](#) [BAV99TQ-13-F](#)  
[BAV99HDW-13](#) [1N4004](#) [MMDB30-E28X](#) [LS4148](#) [IDV15E65D2](#) [W0503RH200S0L](#) [M0268SJ200NLF](#) [M0268RJ200NLF](#) [S3MBF](#) [US1J](#)  
[DAN217U-TP](#) [SHV-06JNS-Q](#) [IDW30C65D1](#) [IDW80C65D1](#) [VS-HFA30TA60CSR-M3](#) [M1MA152WAT1](#)