

## FEATURES

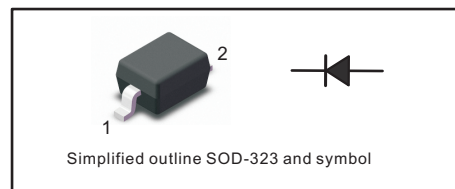
- For surface mounted applications
- Glass Passivated Chip Junction
- Fast reverse recovery time
- Ideal for automated placement
- Lead free in comply with EU RoHS 2011/65/EU directives

## MECHANICAL DATA

- Case: SOD-323
- Terminals: Solderable per MIL-STD-750, Method 2026

## PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



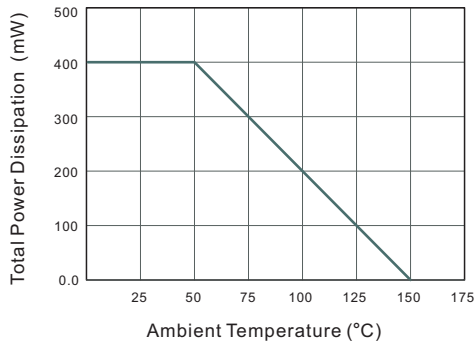
## Absolute Maximum Ratings at 25 °C

Parameter	Symbols	1N4148WS	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	A
Total Power Dissipation	$P_{tot}$	400	mW
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +150	°C

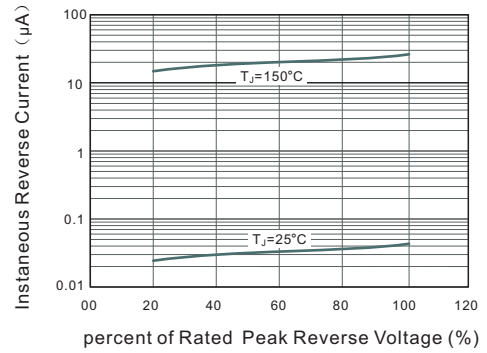
## Characteristics at $T_a = 25\text{ °C}$

Parameter	Symbols	1N4148WS	Units
Reverse Breakdown Voltage at $I_R = 1\text{ }\mu\text{A}$	$V_{(BR)R}$	75	V
Maximum Forward Voltage at 1 mA at 10 mA at 50 mA at 150 mA	$V_F$	0.715 0.855 1.00 1.25	V
Peak Reverse Current at $V_R = 20\text{V}$ $T_j = 25\text{ °C}$ at $V_R = 75\text{V}$ $T_j = 25\text{ °C}$ at $V_R = 25\text{V}$ $T_j = 150\text{ °C}$ at $V_R = 75\text{V}$ $T_j = 150\text{ °C}$	$I_R$	0.025 1 30 50	$\mu\text{A}$
Typical Junction Capacitance	$C_j$	5	pF
Maximum Reverse Recovery Time	$t_{rr}$ Typical	8	ns

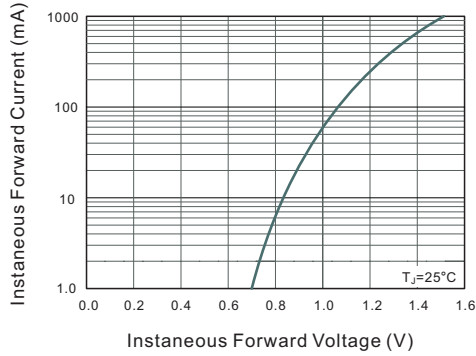
**Fig.1 Forward Current Derating Curve**



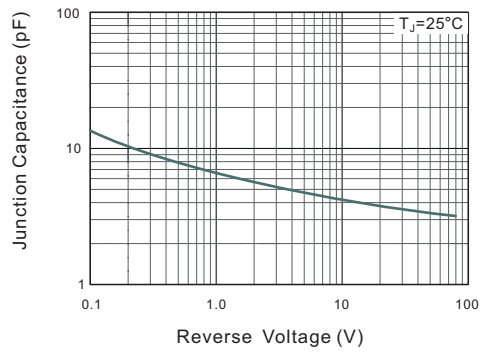
**Fig.2 Typical Reverse Characteristics**



**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Junction Capacitance**



**PACKAGE OUTLINE**

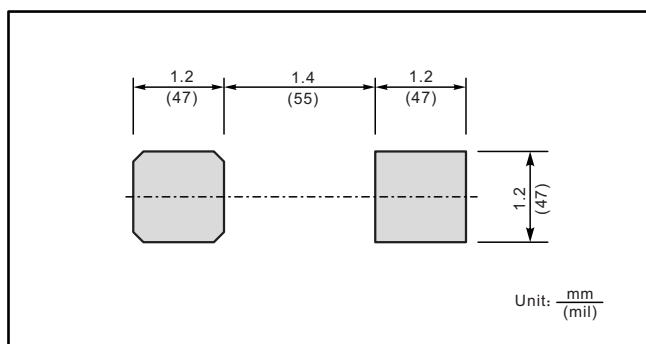
Plastic surface mounted package; 2 leads

SOD-323

**SOD-323 mechanical data**

UNIT		A	C	D	E	E <sub>1</sub>	b	L <sub>1</sub>	A <sub>1</sub>	∠
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**



**Marking**

Type number	Marking code
1N4148WS	T4

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