

**Switching Diodes**
**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
- ◆ Approx. Weight: 5.48mg / 0.00019oz

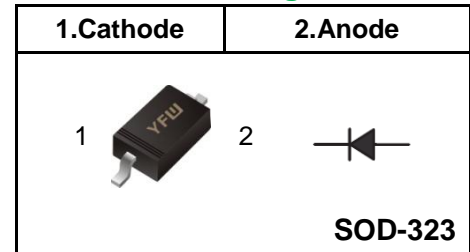
**Absolute Maximum Ratings at 25 °C**

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  $T_a = 25\text{ °C}$** 

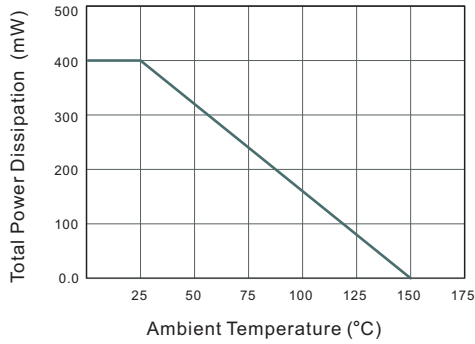
Parameter	Symbols	1N4148WS	Units	
Reverse Breakdown Voltage at $I_R = 1\mu A$	$V_{(BR)R}$	75	V	
Maximum Forward Voltage	$V_F$	at 1 mA	0.715	V
		at 10 mA	0.855	
		at 50 mA	1.00	
		at 150 mA	1.25	
		at 300 mA	1.50	
Peak Reverse Current	$I_R$	at $V_R = 20V, T_j = 25\text{ °C}$	0.025	uA
		at $V_R = 75V, T_j = 25\text{ °C}$	1	
		at $V_R = 25V, T_j = 150\text{ °C}$	30	
		at $V_R = 75V, T_j = 150\text{ °C}$	50	
Typical Junction Capacitance $f = 1MHz, V_R = 4V$	$C_j$	5	pF	
Maximum Reverse Recovery Time	$T_{rr}$ Typical	4	nS	

(1) Measured with  $I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A$

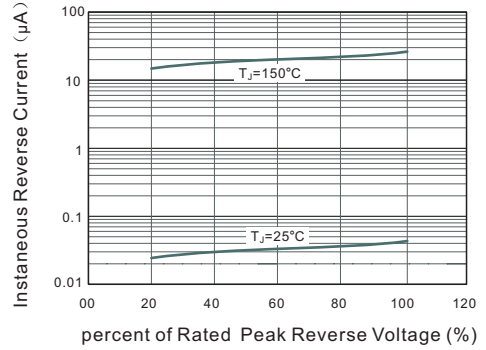
**Pinning**

**Marking Code**

1N4148WS	T4
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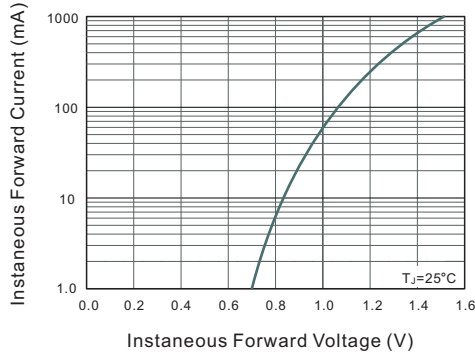
**Fig.1 Power Derating Curve**



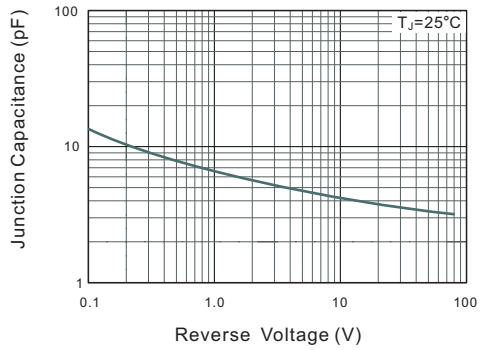
**Fig.2 Typical Reverse Characteristics**



**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Junction Capacitance**



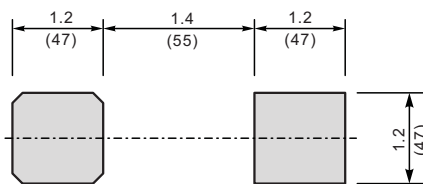
**Package Outline SOD-323**

Plastic surface mounted package; 2 leads



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**



Unit:  $\frac{\text{mm}}{\text{mil}}$

**Summary of Packing Options**

Package	Packing Description	Packing Quantity	Industry Standard
SOD-323	Tape/Reel, 7" reel	3000	EIA-481-1

单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)