

### 1N4148WS Fast Switching Diode

### **General description**

Surface Mount Silicon Switching Diode

#### FEATURES

- Fast Switching Device (TRR <4.0 nS)
- General Purpose Diodes
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode
- Weight: approx. 0.004g

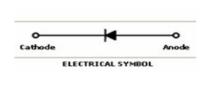
#### Absolute Maximum Ratings TA = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
PD	Power Dissipation	200	mW	
Тѕтс	Storage Temperature Range	-65 to +150	°C	
ТJ	Operating Junction Temperature	+150	°C	
VRSM	Non-Repetitive Peak Reverse Voltage	100	V	
VRRM	Repetitive Peak Reverse Voltage	75	V	
FRM	Repetitive Peak Forward Current	300	mA	
lo	Continuous Forward Current	150	mA	
IFSM	Peak Forward Surge Current (Pulse Width=1us)	2	A	

## **Green Product**



SOD-323 Flat Lead



#### **DEVICE MARKING CODE:**

1N4148WS S1 or T4	Device Type	Device Marking
	1N4148WS	S1 or T4

#### . Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

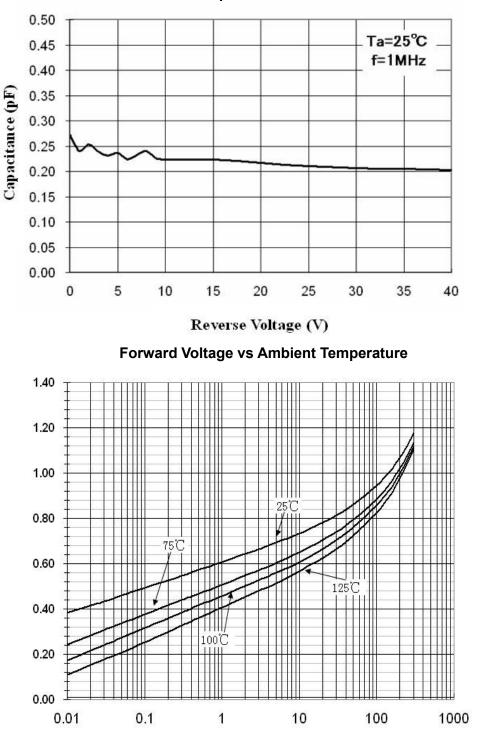
Symbol	Baranatan	Test Condition	Limits		1114
	Parameter		Min	Мах	Unit
Bv	Breakdown Voltage	Ι <sub>R</sub> =100μΑ	100		N / - 14 -
		I <sub>R</sub> =5μA	75		Volts
I <sub>R</sub>	Reverse Leakage Current	V <sub>R</sub> =20V		25	nA µA
		V <sub>R</sub> =75V		5	
VF	Forward Voltage	I <sub>F</sub> =5mA	0.62	0.72	
		I <sub>F</sub> =10mA		1.0	Volts
		I <sub>F</sub> =100mA		1.0	
T <sub>RR</sub>	Reverse Recovery Time	I <sub>F</sub> =10mA			
		I <sub>R</sub> =60mA			-
		R <sub>L</sub> =100		4	nS
		I <sub>RR</sub> =1mA			
С	Capacitance	V <sub>R</sub> =0V, f=1M <sub>HZ</sub>		4	pF

## 1N4148WS

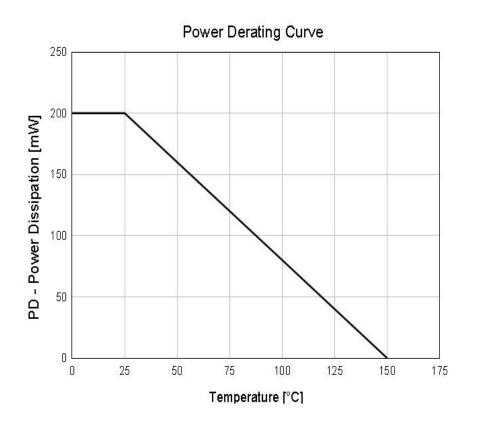


## **Typical Performance Characteristics**

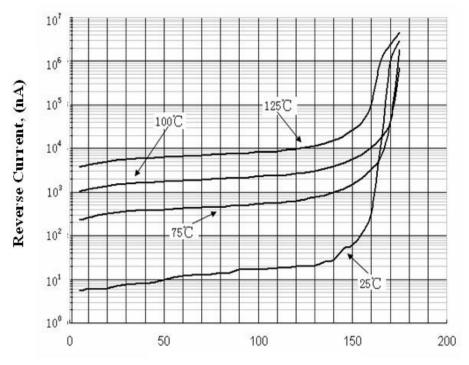
**Total Capacitance** 









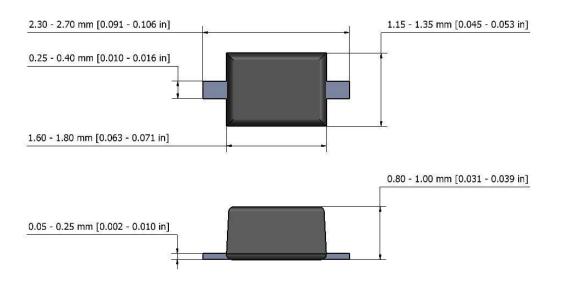


Reverse Voltage, VR (V)

# 1N4148WS



#### SOD-323 Package Outline



NOTES:

1. The above package outline is similar to JEITA SC-90.

2. Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.



## **Important Notice and Disclaimer**

DOESHARE has used reasonable care in preparing the information included in this document, but DOESHARE does not warrant that such information is error free. DOESHARE assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.

DOESHARE no warranty, representation or guarantee regarding the documents, circuits and products specification, DOESHARE reservation rights to make changes for any documents, products, circuits and specifications at any time without notice.

Purchasers are solely responsible for the choice, selection and use of the DOESHARE products and services described herein, and DOESHARE assumes no liability whatsoever relating to the choice, selection or use of the products and services described herein.

No license, express or implied, by implication or otherwise under any intellectual property rights of DOESHARE.

Resale of DOESHARE products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by DOESHARE for the DOESHARE product or service described herein and shall not create or extend in any manner whatsoever, any liability of DOESHARE.