

# 1N4148WT/1N4448WT/1N914BWT

## 1N4148WT/1N4448WT/1N914BWT Fast Switching Diode

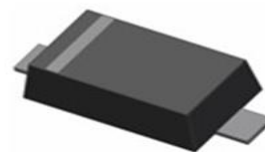
### General description

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. 0.002g
- AEC-Q101 Qualified

### Green Product



SOD-523 Flat Lead



Absolute Maximum Ratings TA = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	200	mW
T <sub>STG</sub>	Storage Temperature Range	-65 to +150	°C
T <sub>J</sub>	Operating Junction Temperature	+150	°C
V <sub>RSM</sub>	Non-Repetitive Peak Reverse Voltage	100	V
V <sub>RRM</sub>	Repetitive Peak Reverse Voltage	75	V
I <sub>FRM</sub>	Repetitive Peak Forward Current	300	mA
I <sub>O</sub>	Continuous Forward Current	150	mA
I <sub>FSM</sub>	Peak Forward Surge Current (Pulse Width=1us)	2	A

### DEVICE MARKING CODE:

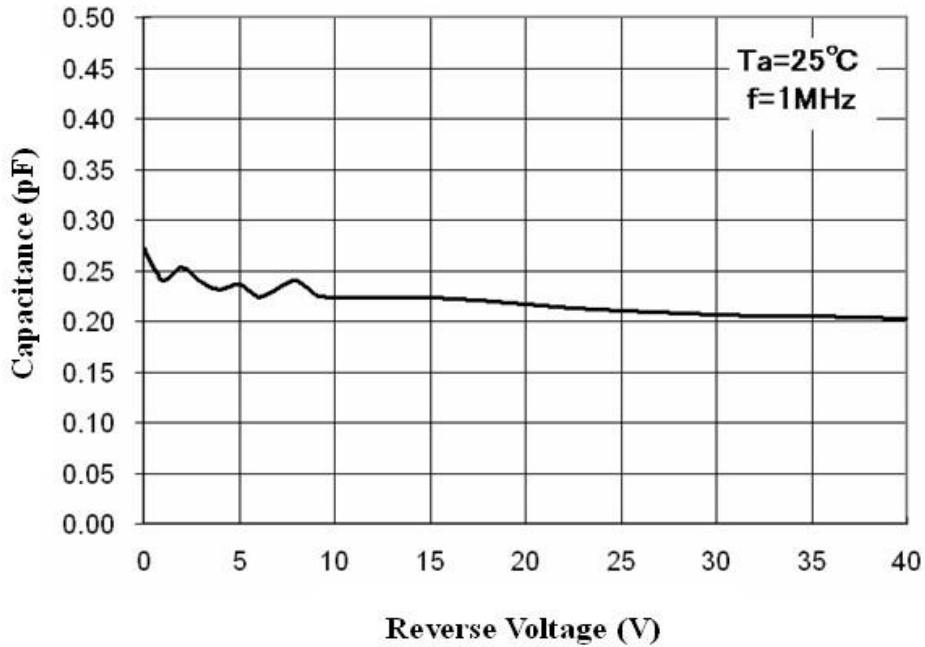
Device Type	Device Marking
1N4148WT	E1 or T4

### Electrical Characteristics TA = 25°C unless otherwise noted

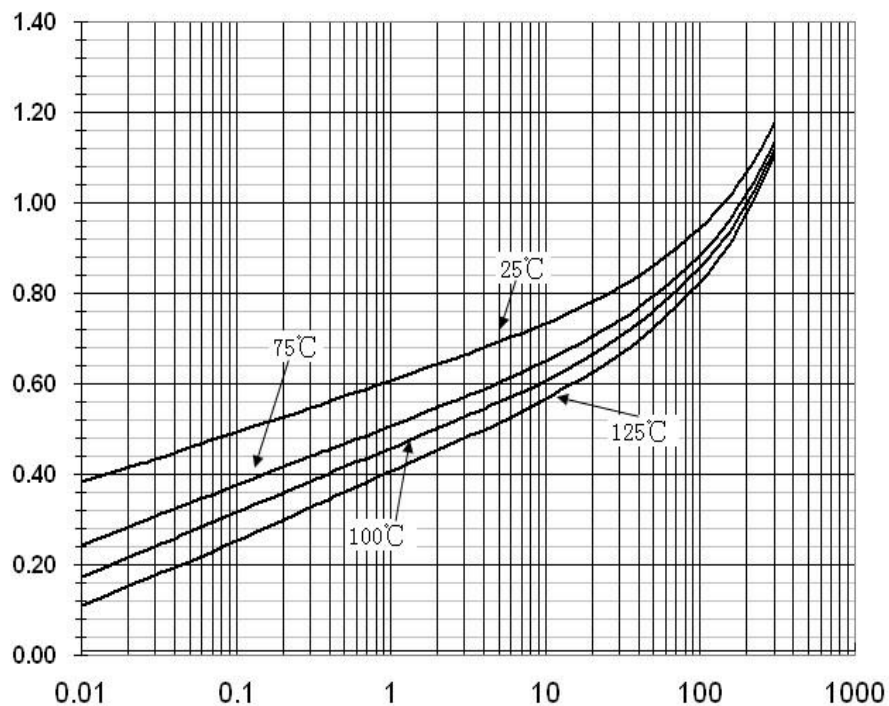
Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B <sub>V</sub>	Breakdown Voltage	I <sub>R</sub> =100μA	100		Volts
		I <sub>R</sub> =5μA	75		
I <sub>R</sub>	Reverse Leakage Current	V <sub>R</sub> =20V		25	nA μA
		V <sub>R</sub> =75V		5	
V <sub>F</sub>	Forward Voltage	1N4448WS, 1N914BWS I <sub>F</sub> =5mA	0.62	0.72	Volts
		1N4148WS I <sub>F</sub> =10mA		1.0	
		1N4448WS, 1N914BWS I <sub>F</sub> =100mA		1.0	
T <sub>RR</sub>	Reverse Recovery Time	I <sub>F</sub> =10mA		4	nS
		I <sub>R</sub> =60mA			
		R <sub>L</sub> =100			
		I <sub>RR</sub> =1mA			
C	Capacitance	V <sub>R</sub> =0V, f=1MHz		4	pF

## Typical Performance Characteristics

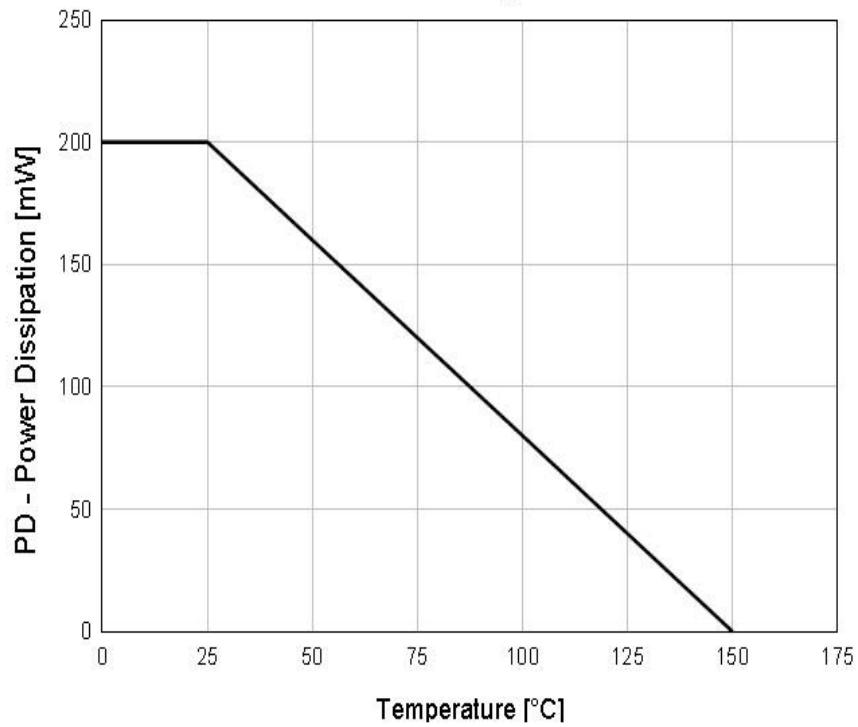
### Total Capacitance



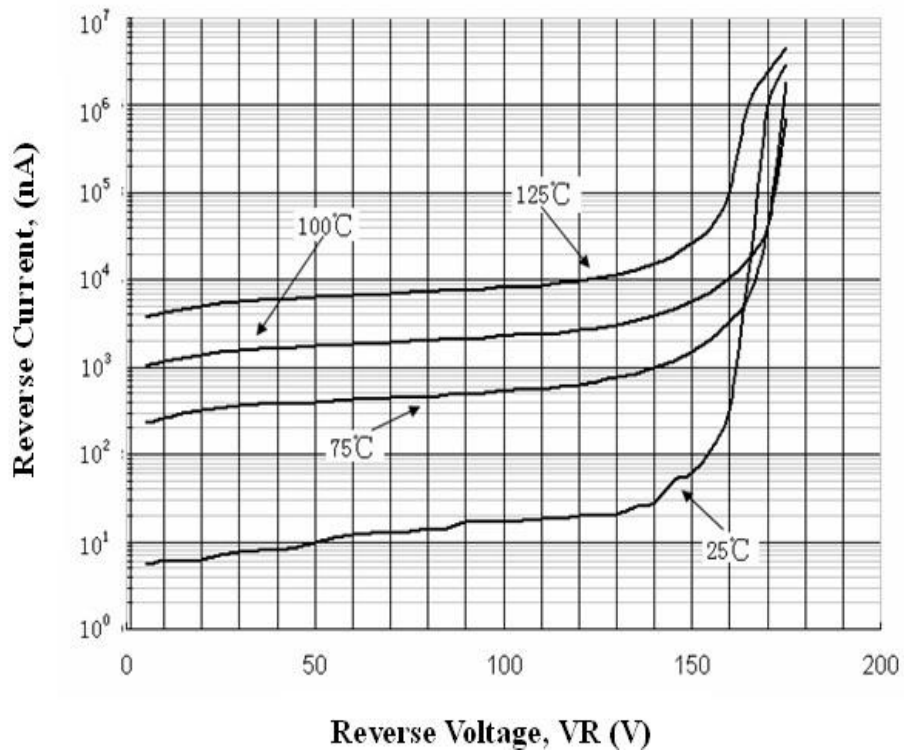
### Forward Voltage vs Ambient Temperature



### Power Derating Curve

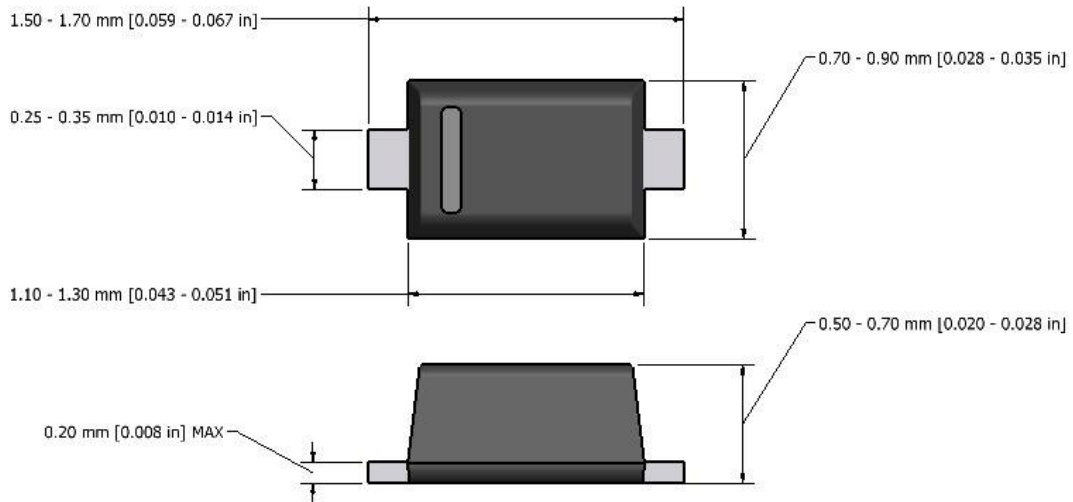


### Reverse Current vs Reverse Voltage Reverse



# 1N4148WT/1N4448WT/1N914BWT

## Flat Lead SOD-523 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.

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