

1N4148WT

1N4148WT Fast Switching Diode

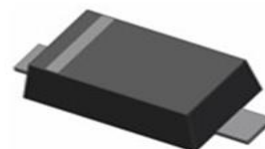
General description

Surface Mount Silicon Switching Diode

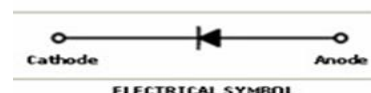
FEATURES

- 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

Green Product



SOD-523 Flat Lead



Absolute Maximum Ratings TA = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P _D	Power Dissipation	200	mW
T _{STG}	Storage Temperature Range	-65 to +150	°C
T _J	Operating Junction Temperature	+150	°C
V _{RSM}	Non-Repetitive Peak Reverse Voltage	100	V
V _{RRM}	Repetitive Peak Reverse Voltage	75	V
I _{FRM}	Repetitive Peak Forward Current	300	mA
I _{FSM}	Peak Forward Surge Current (Pulse Width=1s)	2	A
I _{FM}	Forward Current	200	mA

DEVICE MARKING CODE:

Device Type	Device Marking
1N4148WT	E1 or T4

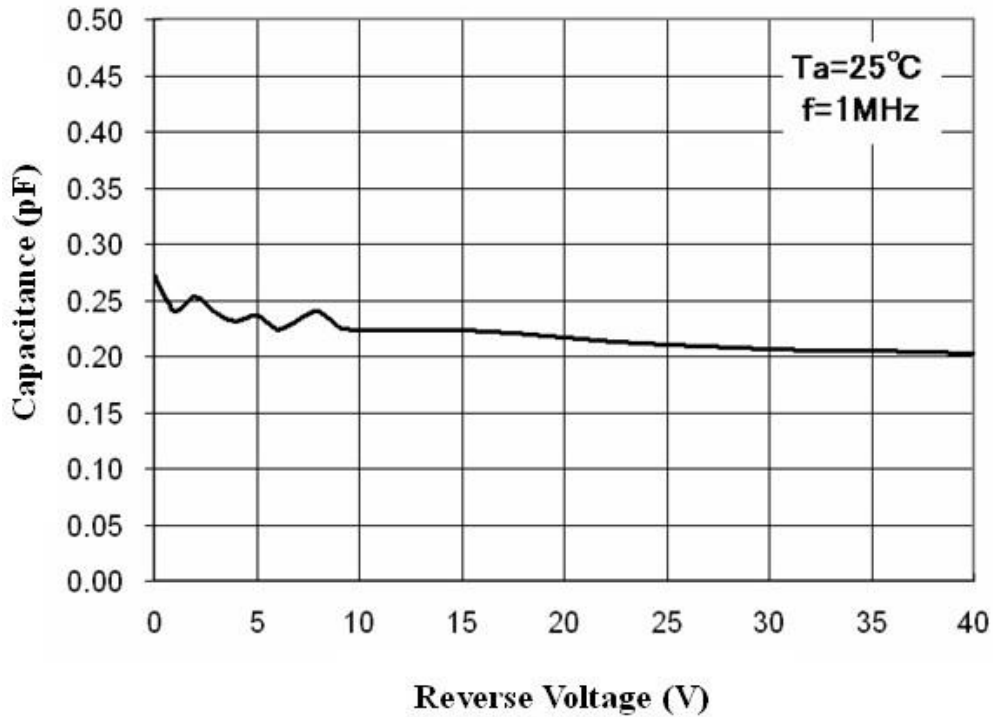
Electrical Characteristics

TA = 25°C unless otherwise noted

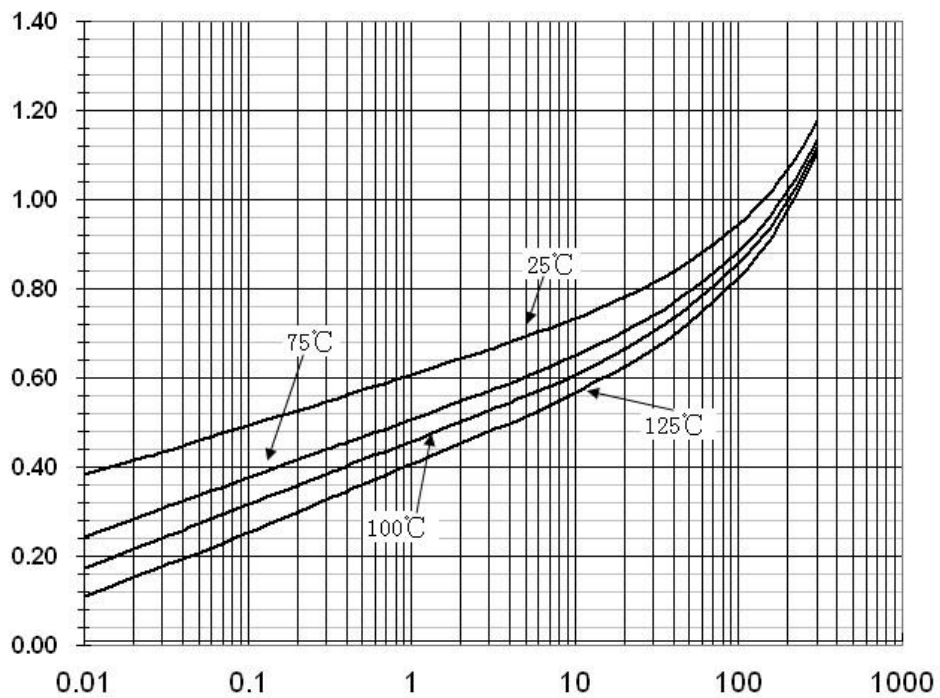
Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B _V	Breakdown Voltage	I _R =100μA I _R =5μA	100 75		Volts
I _R	Reverse Leakage Current	V _R =20V V _R =75V		25 5	nA μA
V _F	Forward Voltage	I _F =10mA		1	Volts
T _{RR}	Reverse Recovery Time	I _F =10mA I _R =60mA R _L =100 Ω I _{RR} =1mA		4	nS
C	Capacitance	V _R =0V, f=1MHz		4	pF

Typical Performance Characteristics

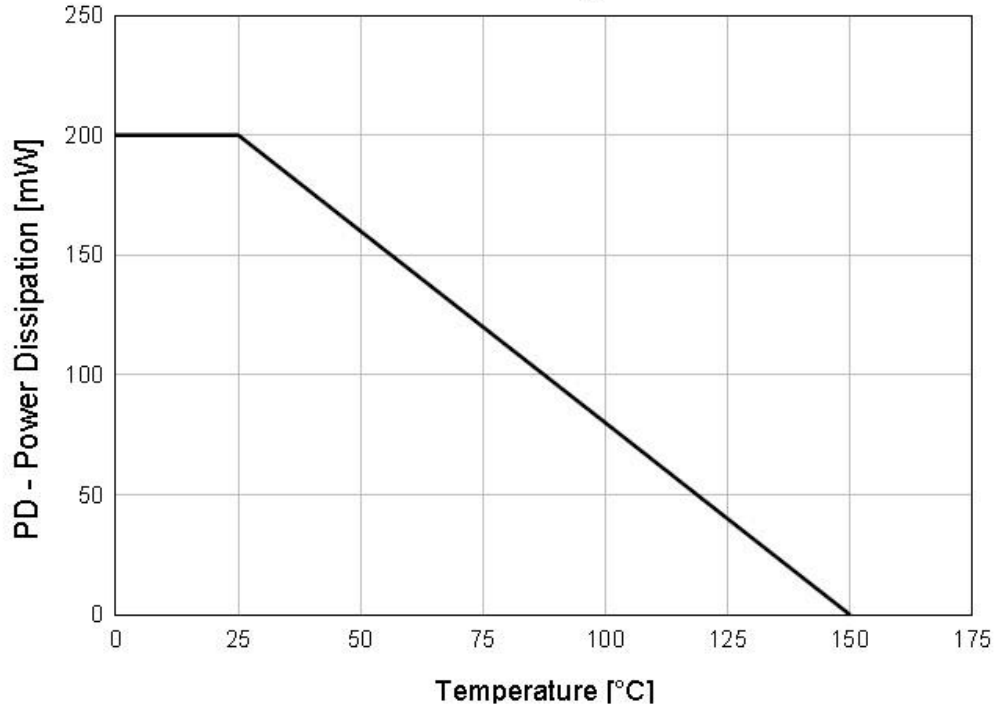
Total Capacitance



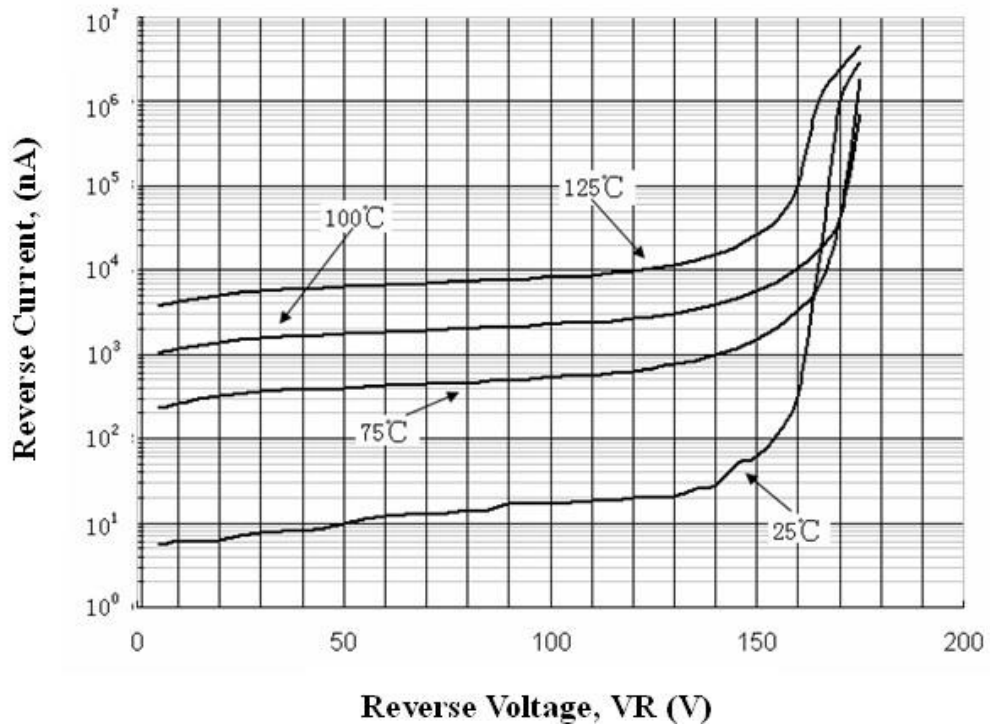
Forward Voltage vs Ambient Temperature



Power Derating Curve

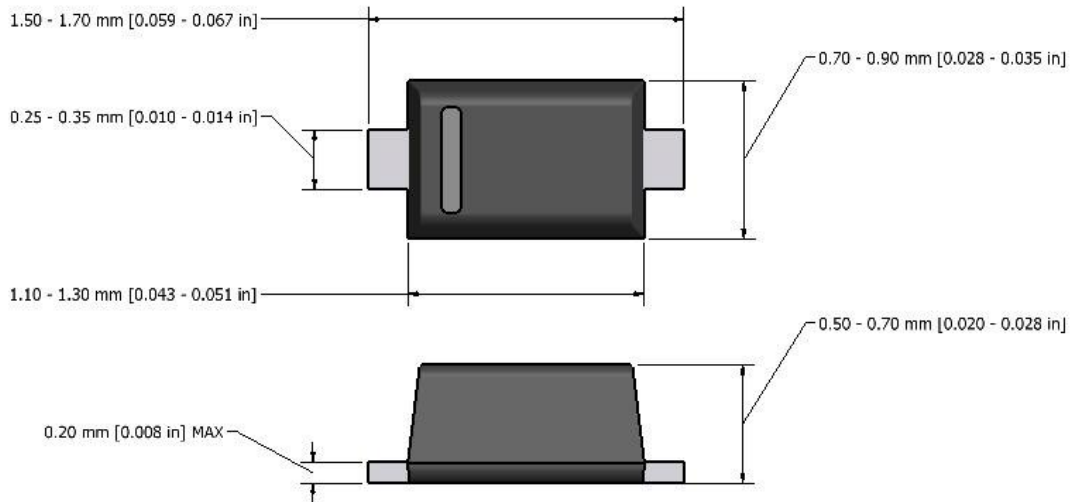


Reverse Current vs Reverse Voltage Reverse



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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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