1N4148WT/1N4448WT/1N914BWT



1N4148WT/1N4448WT/1N914BWT Fast Switching Diode

General description

Surface Mount Silicon Switching Diode

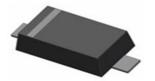
FEATURES

- 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

Absolute Maximum Ratings TA = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
P _D	Power Dissipation	200	mW	
Тѕтс	Storage Temperature Range	-65 to +150	°C	
TJ	Operating Junction Temperature	+150	°C	
Vrsm	Non-Repetitive Peak Reverse Voltage	100	V	
V RRM	Repetitive Peak Reverse Voltage	75	V	
IFRM	Repetitive Peak Forward Current	300	mA	
Ιο	Continuous Forward Current	150	mA	
IFSM	Peak Forward Surge Current (Pulse Width=1us)	2	Α	

Green Product



SOD-523 Flat Lead



DEVICE MARKING CODE:

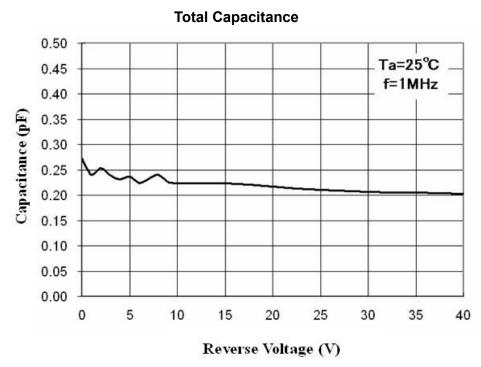
Device Type	Device Marking
1N4148WT	E1 or T4

. **Electrical Characteristics** T_A = 25°C unless otherwise noted

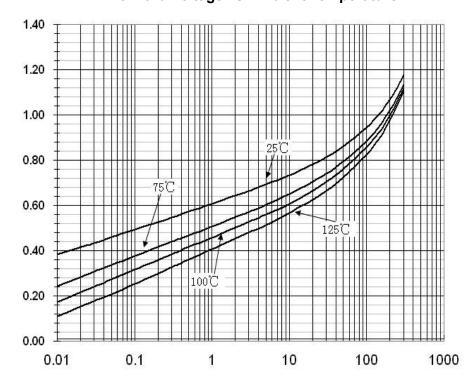
Symbol	Parameter		Test Condition	Limits		
				Min	Max	Unit
B _V	Breakdown Voltage		I _R =100μA	100		\
			I _R =5µA	75		Volts
I _R	Reverse Leakage Current		V _R =20V		25	nA μA
			V _R =75V		5	
V _F	Forward Voltage	1N4448WS, 1N914BWS	I _F =5mA	0.62	0.72	
		1N4148WS	I _F =10mA		1.0	Volts
		1N4448WS, 1N914BWS	I _F =100mA		1.0	
T _{RR}	Reverse Recovery Time		I _F =10mA			
			I _R =60mA			
			R _L =100		4	nS
			I _{RR} =1mA			
С	Capacitance		V _R =0V, f=1M _{HZ}		4	pF



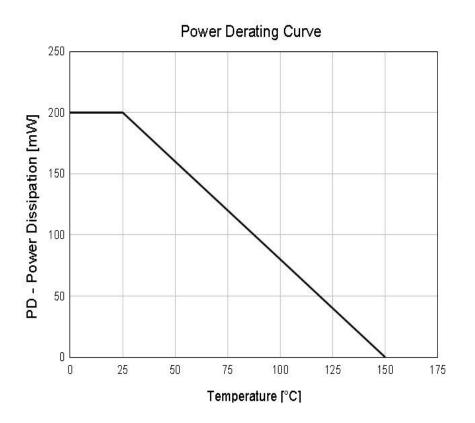
Typical Performance Characteristics



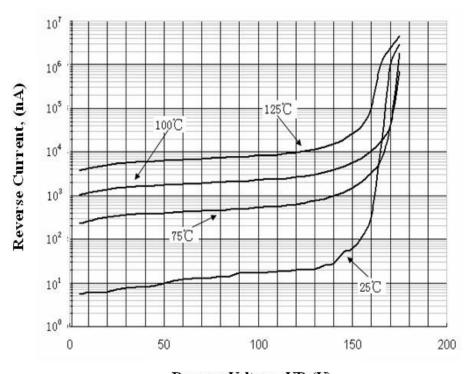
Forward Voltage vs Ambient Temperature







Reverse Current vs Reverse Voltage Reverse

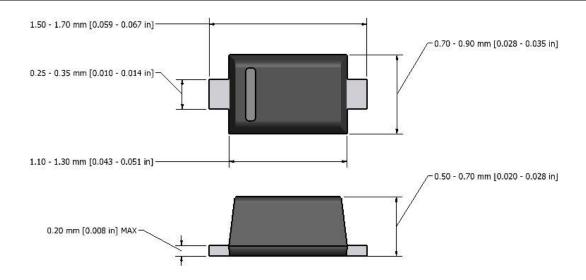


Reverse Voltage, VR (V)

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.

1N4148WT/1N4448WT/1N914BWT



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