

1N4148WT

Switching Diode

FEATURE

- Fast switching devices
- SOD523 Micro SMD package
- RoHS compliant / Green EMC
- Matte Tin (Sn) Lead finish
- Cathode Band / Device marking
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

MARKING: **T4**

SOD-523F



Schematic diagram



ABSOLUTE MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

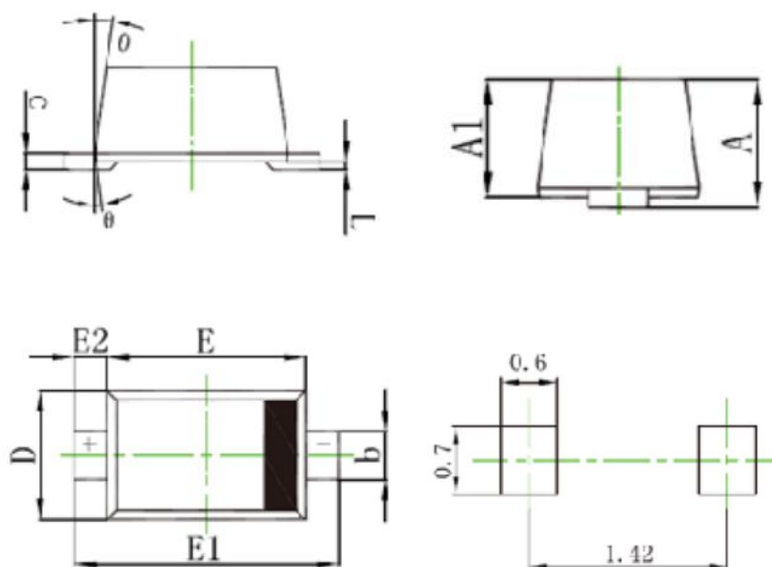
Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Repetitive Peak Reverse Voltage	V _{RSM}	100	V
RMS Reverse Voltage	V _{R(RMS)}	75	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	I _O	150	mA
Non-Repetitive Peak Forward Surge Current (@t=8..3ms)	I _{FSM}	2.0	A
Power Dissipation	P _D	150	mW
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS(T_a=25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Forward Voltage	V _F	I _F = 1mA	75		0.715	V
		I _F = 10mA			0.855	V
		I _F = 50mA			1.0	V
		I _F = 150mA			1.25	V
Reverse current	I _R	V _R = 75V (25°C)			1	μA
		V _R = 20V (25°C)			25	nA
		V _R = 75V (150°C)			50	μA
Capacitance	C _T	V _R = 0V, f = 1MHz			2	pF
Reverse Recovery Time	t _{rr}	I _F = I _R = 10mA, I _{RR} = 1mA, R _L = 100Ω			4	ns

SOD-523F Package Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
1N4148WT	SOD-523F	Tape & Reel 8000pcs /7" Reel	8 mm	4 mm	Conductive	



Symbol	Dimensions In Millimeters		
	Min	Typ	Max
A	0.51	-	0.77
A1	0.50	-	0.70
b	0.25	-	0.35
c	0.08	-	0.15
D	0.75	-	0.85
E	1.10	-	1.30
E1	1.50	-	1.70
E2	0.20REF.		
L	0.01	-	0.07
θ	7° REF.		

1. Unit mm