

Features and benefits

- Extremely small surface mounting type.
- High Speed.
- Device meets MSL 1 requirements



Application information

- High speed switching

SOD-523

Ordering information

Device	Package	Marking	Packaging
1N4148WT	SOD-523	T4	3000/Tape & Reel

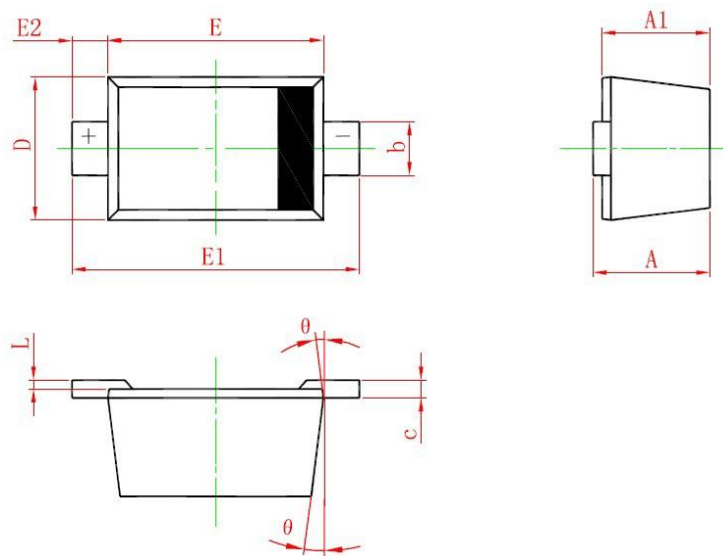
Maximum Ratings & Thermal Characteristics (T_A=25°C unless otherwise specified)

Parameters	Symbol	Value	Unit
Peak reverse voltage	V _{RM}	100	V
DC reverse voltage	V _R	75	V
Peak forward current	I _{FM}	225	mA
Mean rectifying current	I _O	100	mA
Surge current (1s)	I _{SURGE}	500	mA
Non-repetitive Peak Forward Surge Current@t=8.3ms	I _{FSM}	2	A
Junction temperature	T _J	125	°C
Storage temperature	T _{stg}	-40 to +125	°C

Electrical Characteristics(T_A=25°C unless otherwise specified)

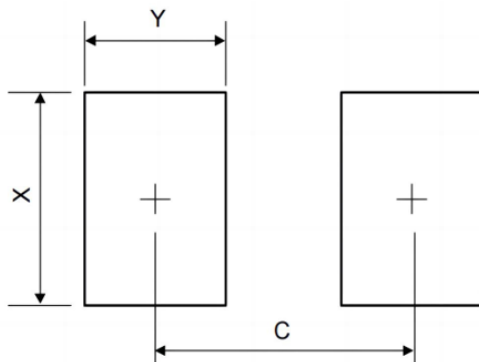
Characteristic	Symbol	Max	Unit
Forward voltage (I _F =100mA)	V _F	1.2	V
Reverse current (V _R =80V)	I _R	0.1	uA
Capacitance between terminals (V _R =0.5V,f=1MHz)	C _T	3	pF
Reverse recovery time (V _R =6V,I _F =10mA,R _L =100Ω)	T _{rr}	4	nS

SOD-523 Package Outline Drawing



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.510	0.770	0.020	0.031
A1	0.500	0.700	0.020	0.028
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	0.750	0.850	0.030	0.033
E	1.100	1.300	0.043	0.051
E1	1.500	1.700	0.059	0.067
E2	0.200 REF		0.008 REF	
L	0.010	0.070	0.001	0.003
θ	7° REF		7° REF	

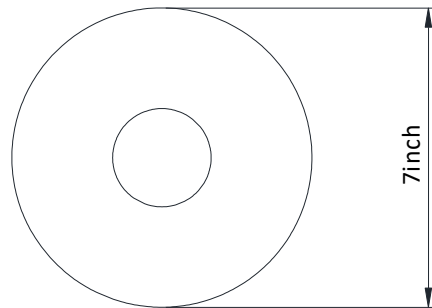
Suggested Land Pattern



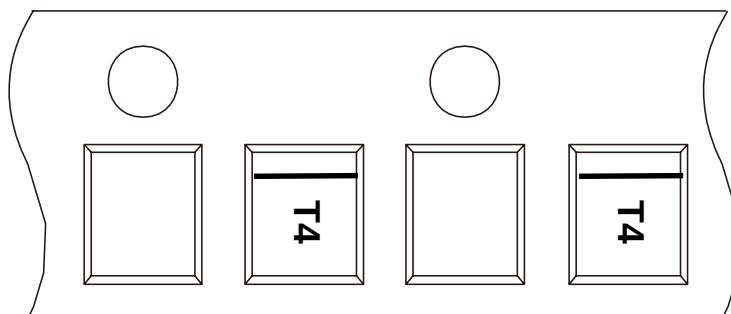
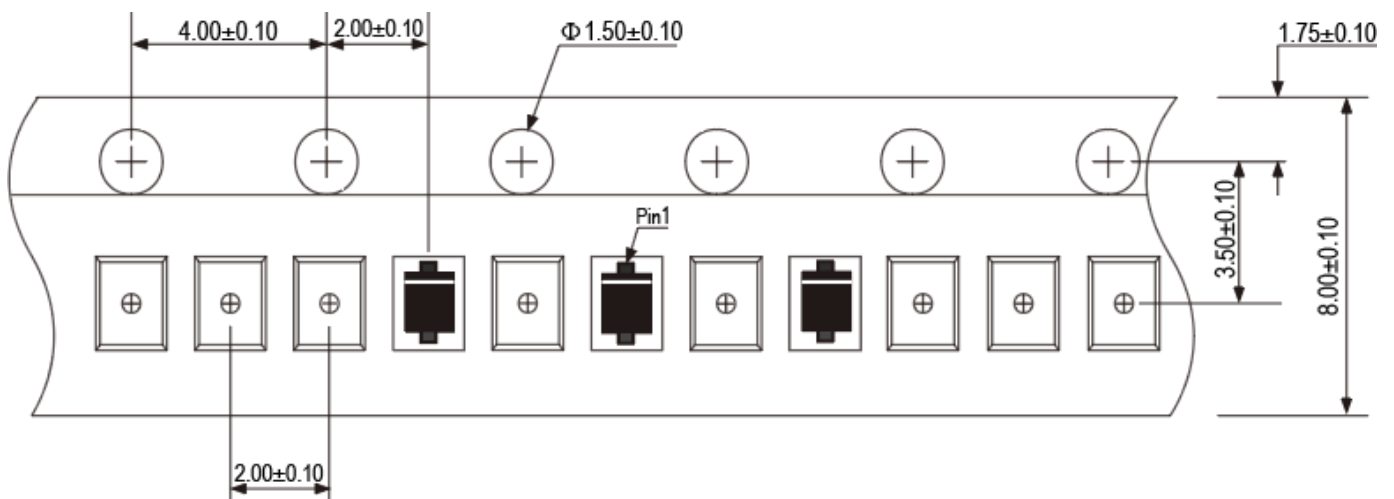
SYM	DIMENSIONS	
	MILLIMETERS	INCHES
C	1.42	0.056
X	0.70	0.028
Y	0.60	0.024

TAPE AND REEL INFORMATION

Reel Dimensions



Tape Dimension



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