

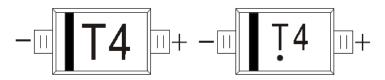
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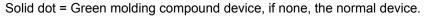
1N4148WT FAST SWITCHING DIODE

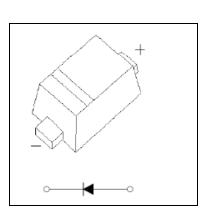
Features:

- Low Forward Voltage Drop
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection

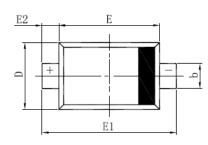
Marking: T4

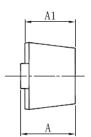


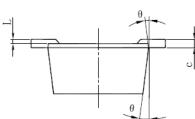




Mechanical Dimensions: In mm/Inches







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
А	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	
С	0.080	0.150	0.003	0.006	
D	0.750	0.850	0.030	0.033	
Е	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° F	REF	

SOD-523

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •



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Ordering Information:

Device	Package	Shipping	
1N4148WT	SOD-523(Pb-Free)	8000pcs / reel	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings @T_A=25°C unless otherwise specified

Symbol	Parameter	Value	Unit	
V_{RM}	Non-repetitive Peak Reverse Voltage	100	V	
V_{RRM}	Peak Repetitive Reverse Voltage	75		
V_{RWM}	Working Peak Reverse Voltage	75	V	
$V_{R(RMS)}$	RMS Reverse Voltage	53	V	
Ιο	Average Rectified Output Current	0.15	Α	
I _{FSM}	Non-repetitive Peak Forward Surge Current @ t=8.3ms	300	mA	
P_{D}	Power Dissipation	150	mW	
$R_{\Theta JA}$	Thermal Resistance from Junction to Ambient	833	°C/W	
Tj	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-55~+150	°C	

Electrical Characteristics @T_A=25°C unless otherwise specified

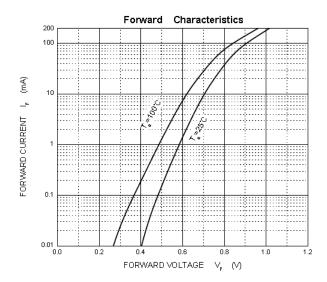
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Reverse voltage	$V_{(BR)}$	I _R =1µA	75	-	-	V
Reverse current	I _R	V _R =75V	-	-	1	μΑ
		V _R =20V	-	-	25	μΑ
Forward voltage	V _F	I _F =1mA	-	-	0.715	V
		I _F =10mA	-	-	0.855	
		I _F =50mA	-	-	1	
		I _F =150mA	-	-	1.25	
Total capacitance	C_{tot}	V _R =0V,f=1MHz	-	-	2	pF
Reverse recovery time	T _{rr}	$I_F = I_R = 10$ mA, $Irr = 0.1 \times IR$, $R_L = 100\Omega$	-	-	4	ns

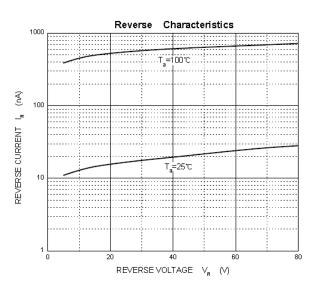
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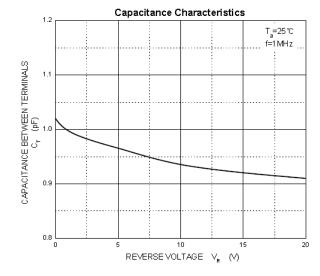
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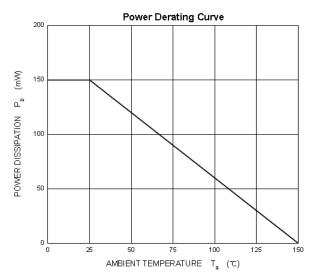


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