

Features

- Average Rectified Output Current:Io=150 mA
- Power Dissipation of 150mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
1N4148WT	SOD-523	T4	3000



SOD-523



Maxmim Ratings (Ta=25°C unless otherwise noted)

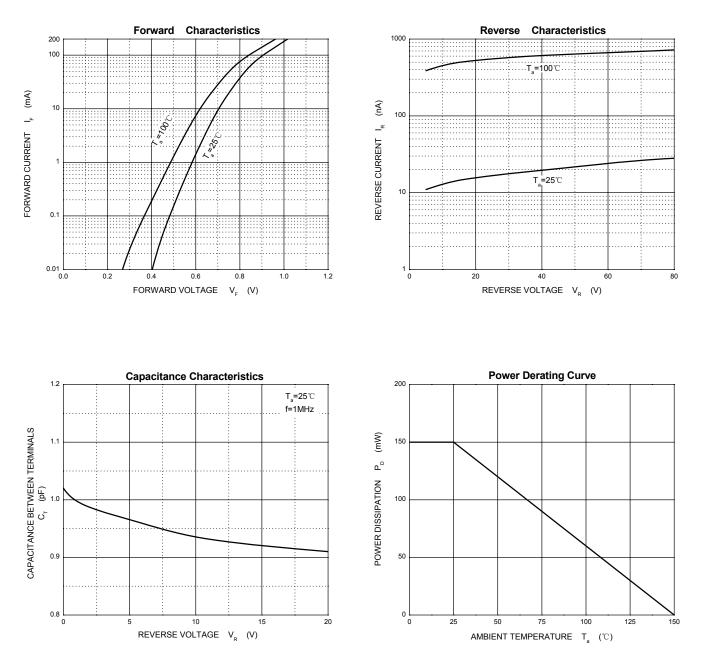
Symbol	Parameter	Value	Unit	
V_{RM}	Non-Repetitive Peak Reverse Voltage	100	V	
V _R	Reverse Voltage			
V_{RRM}	Peak Repetitive Reverse Voltage	75	V	
V _{RWM}	Working Peak Reverse Voltage			
V _{R(RMS)}	RMS Reverse Voltage	53	V	
lo	Average Rectified Output Current	150	mA	
I _{FM}	Forward Continuous Current	300	mA	
I _{FSM}	Non-repetitive Peak Forward Surge Current@t=8.3ms	2	A	
PD	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	

Electrcal Charcteristics (Ta=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	μA
		V _R =20V			25	nA
Forward voltage	VF	I _F =1mA			0.715	V
		I _F =10mA			0.855	V
		I _F =50mA			1	V
		I _F =150mA			1.25	V
Total capacitance	C _{tot}	V _R =0V,f=1MHz			2	pF
Reverse recovery time	t _{rr}	$I_F = I_R = 10 \text{mA}, I_{rr} = 0.1^* I_R, R_L = 100 \Omega$			4	ns

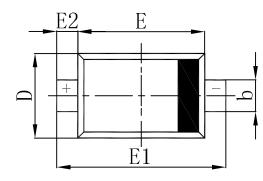


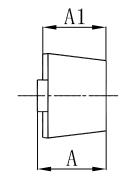
Typical Characteristics

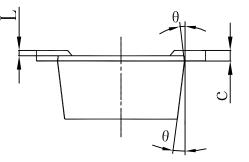




SOD-523 Package Outline Dimensions







	imensions In Millimeters		imensions In Inches		
Symbol	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	
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		



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