



Product data sheet

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FEATURES

- Small Package
- Low Reverse Current
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion

MARKING: T5



Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Peak Repetitive Peak Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	75	V
DC Blocking Voltage	V _R		
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Forward Continuous Current	I _{FM}	500	mA
Average Rectified Output Current	lo	250	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	A
Power Dissipation	Pd	150	mW
Thermal Resistance Junction to Ambient	$R_{ extsf{ heta}JA}$	833	°C/W
Junction Temperature	Tj	150	°C
Storage Temperature	T _{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Reverse voltage	V _{(BR)1}	I _R =5µA	75			V
Reverse voltage	V _{(BR)2}	I _R =100μA	100			V
Reverse current	I _R	V _R =75V			1	μA
		V _R =20V			25	nA
Forward voltage		I _F =5mA			0.715	V
		I _F =10mA			0.855	V
	V _F	I _F =100mA			1	V
		I _F =150mA			1.25	V
Total capacitance	C _{tot}	V _R =0V,f=1MHz			4	pF
Reverse recovery time	t _{rr}	I _F = I _R =10mA, I _{rr} =0.1*I _R ,R _L =100 Ω			4	ns

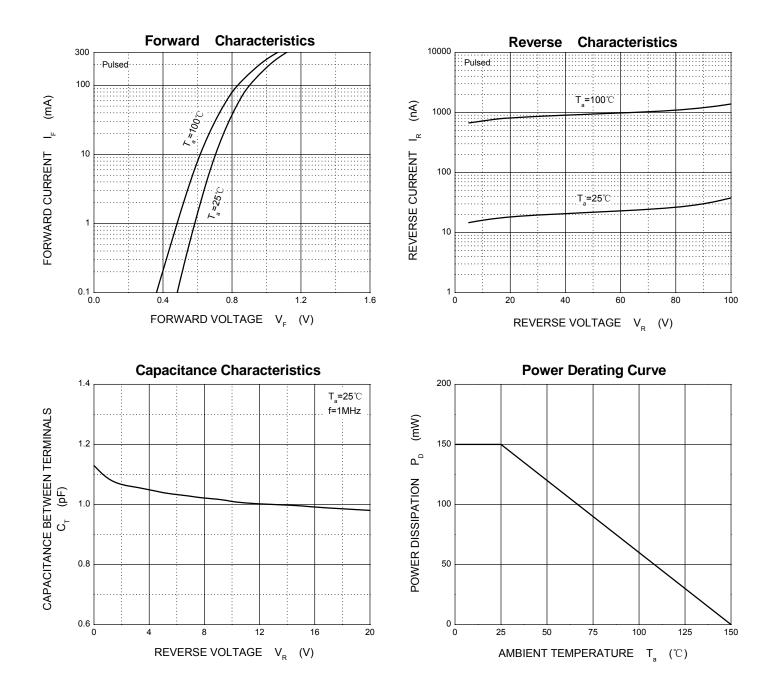


SOD-523



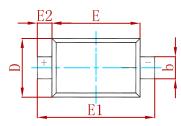


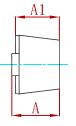
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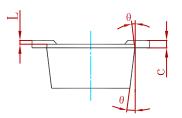




PACKAGE MECHANICAL DATA

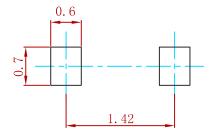






Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
A	0.510	0.770	0.020	0.031	
A1	0.500	0.700	0.020	0.028	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	0.750	0.850	0.030	0.033	
E	1.100	1.300	0.043	0.051	
E1	1.500	1.700	0.059	0.067	
E2	0.200) REF	300.0	B REF	
L	0.010	0.070	0.001	0.003	
θ	7° F	REF	7° F	REF	

Suggested Pad Layout



Note: 1.Controlling dimension:in millimeters. 2.General tolerance:± 0.05mm.

3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
1N4448WT	SOD-523	3000



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