

#### Features

- Peak Forward Current: I<sub>FM</sub>=350 mA
- Power Dissipation of 150mw

### Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)	
1N5819WT	SOD-523	S4	3000	



SOD-523



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

Symbol	Parameter	Value	Unit
V <sub>RRM</sub>	Peak Repetitive Reverse Voltage		
V <sub>RWM</sub>	Working Peak Reverse Voltage	40	V
V <sub>R</sub>	DC Blocking Voltage		
V <sub>R(RMS)</sub>	RMS Reverse Voltage	28	V
I <sub>FM</sub>	Forward Continuous Current	350	mA
I <sub>FSM</sub>	Non-Repetitive Peak Forward Surge Current@t=8.3ns	2	А
PD	Power Dissipation	150	mW
R <sub>OJA</sub>	Thermal Resistance From Junction To Ambient	667	°C/W
Tj	Junction Temperature	125	ĉ
T <sub>stg</sub>	Storage Temperature	-55~+150	ĉ

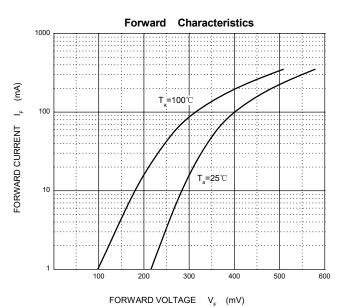
### Electrcal Charcteristics (Ta=25°C unless otherwise specified)

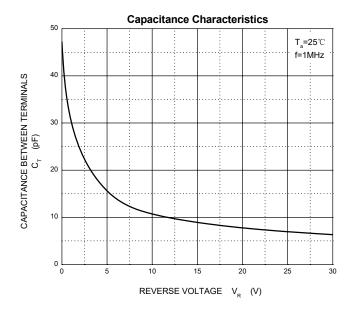
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Reverse voltage	V <sub>(BR)</sub>	I <sub>R</sub> =100μA	40			V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =30V			5	μA
		V <sub>R</sub> =20V			2	
		V <sub>R</sub> =10V			1	
Forward voltage	V <sub>F</sub>	I⊧=1mA		0.27		V
		I⊧=5mA		0.32		
		I <sub>F</sub> =20mA			0.37	
		I <sub>F</sub> =200mA			0.6	
Total capacitance	C <sub>tot</sub>	V <sub>R</sub> =0V,f=1MHz		50		pF
Reverse recovery time	t <sub>rr</sub>	$I_F = I_R = 200 \text{mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$		10		ns

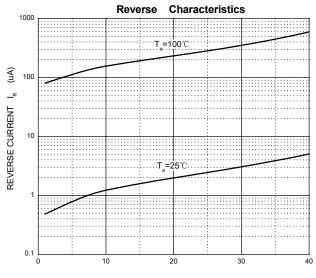


## 1N5819WT SCHOTTKY BARRIER DIODE

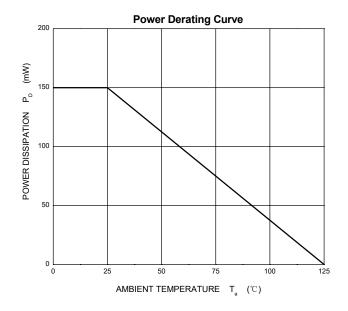
## **Typical Characteristics**





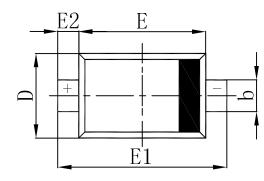


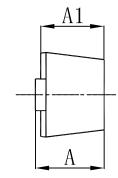


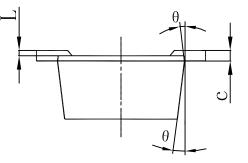




# SOD-523 Package Outline Dimensions







	imensions In Millimeters		imensions 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		0.008 REF		
L	0.010	0.070	0.001	0.003	
θ	7° REF		7° REF		



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