

Features

- Forward Continuous Current:I_{FM}=350mA
- Power Dissipation of 400mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
1N5819W	SOD-123	S4	3000



SOD-123



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

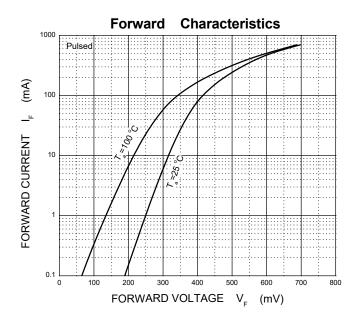
Symbol	Parameter	Value	Unit
V_{RRM}	Peak Repetitive Reverse Voltage	40	
V_{RWM}	Working Peak Reverse Voltage	40	V
V _{R(RMS)}	RMS Reverse Voltage	28	V
I _{FM}	Forward Continuous Current	350	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current@t=8.3ms	2	Α
P _D	Power Dissipation	400	mW
R _{⊝JA}	Thermal Resistance from Junction to Ambient	250	°C/W
T _j	Junction Temperature	125	$^{\circ}$
T _{stg}	Storage Temperature	-55~+150	$^{\circ}$

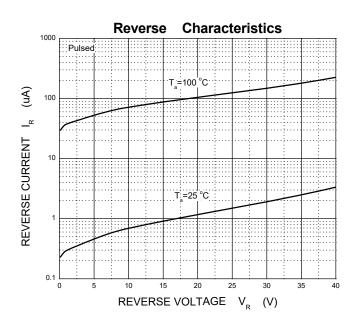
Electrical Characteristics (Ta=25°C unless otherwise specified)

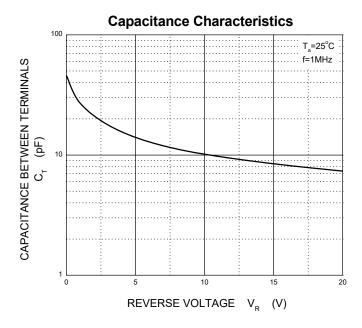
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit	
Reverse voltage	$V_{(BR)}$	I _R =100μA	40			V	
Reverse current	I _R	V _R =30V			5	μΑ	
		V _R =20V			2		
		V _R =10V			1		
Forward voltage	V _F	I _F =1mA		0.27		- V	
		I _F =5mA		0.32			
		I _F =20mA			0.37		
		I _F =200mA			0.6		
Total capacitance	C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

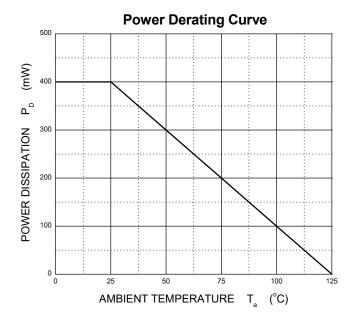


Typical Characteristics



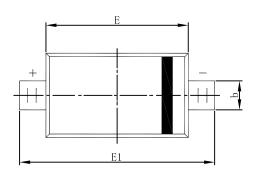


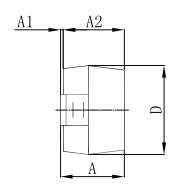


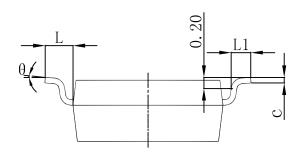




SOD-123 Package Outline Dimensions







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.450	0.650	0.018	0.026	
С	0.080	0.150	0.003	0.006	
D	1.500	1.700	0.059	0.067	
E	2.600	2.800	0.102	0.110	
E1	3.550	3.850	0.140	0.152	
L	0.500 REF		0.020 REF		
L1	0.250	0.450	0.010	0.018	
θ	0°	8°	0°	8°	



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