

Features

- Peak Forward Current: I_{FM}=350 mA
- Power Dissipation of 200mw



SOD-323



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)	
1N5819WS	SOD-323	S4	3000	

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

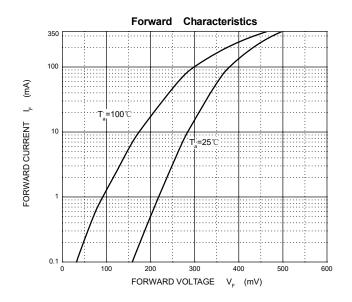
Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	40	V
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	28	V
Forward Continuous Current	I _{FM}	350	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	А
Power Dissipation	Pd	200	mW
Thermal Resistance Junction to Ambient	R _{θJA}	500	°C/W
Junction Temperature	Tj	-40~+125	°C
Storage Temperature	T _{STG}	-55~+150	°C

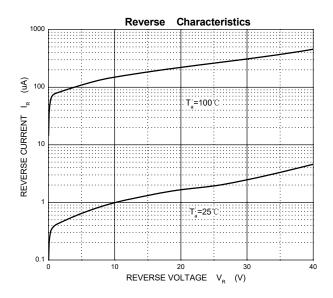
Electrcal Charcteristics (Ta=25°C unless otherwise specified)

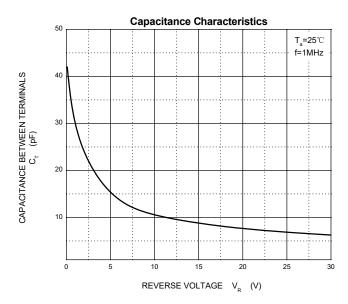
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit	
Reverse voltage	$V_{(BR)}$	I _R =100μA	40			V	
	I _R	V _R =30V			5		
Reverse current		V _R =20V			2	μΑ	
		V _R =10V			1		
Forward voltage	V _F	I _F =1mA		0.27		V	
		I _F =5mA		0.32			
		I _F =20mA			0.37		
		I _F =200mA			0.6		
Total capacitance	C _{tot}	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	

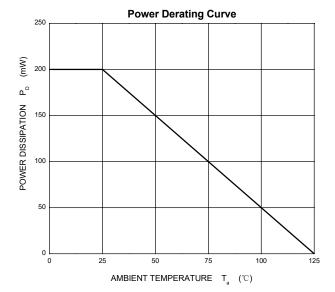


Typical Characteristics



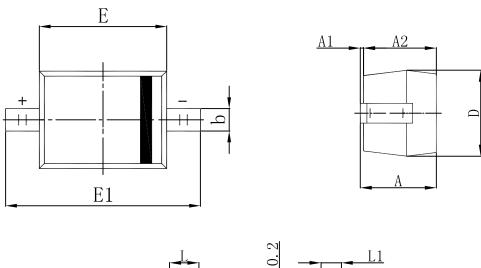


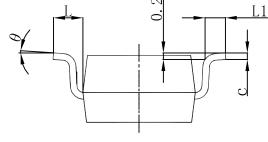






SOD-323 Package Outline Dimensions





Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α		1.100		0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.800	1.000	0.031	0.039	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.500	2.750	0.098	0.108	
L	0.475 REF		0.019 REF		
L1	0.250	0.400	0.010	0.016	
θ	0°	8°	0°	8°	



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