

FEATURES

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

Package Marking and Ordering Information

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



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

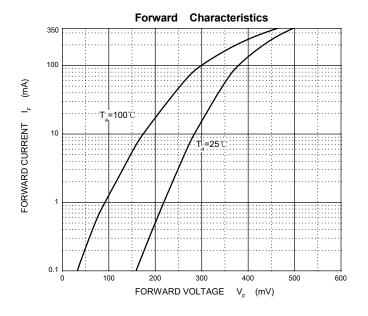
Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	40	V
DC Blocking Voltage	V_R		
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Forward Continuous Current	I _{FM}	350	mA
Bcb!fepetitive Peak Forward Surge Current @t1, " a s	I _{FSM}	2.0	А
Power Dissipation	Pd	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W
Junction Temperature	Tj	-40~+125	°C
Storage Temperature	T _{STG}	-55~+150	$^{\circ}$

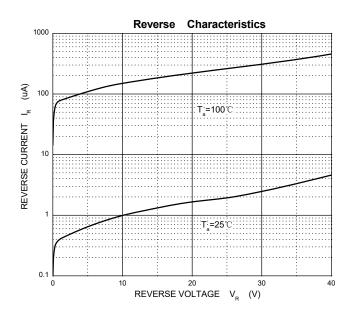
ELECTRICAL CHARACTERISTICS (T_a=25 unless otherwise specified)

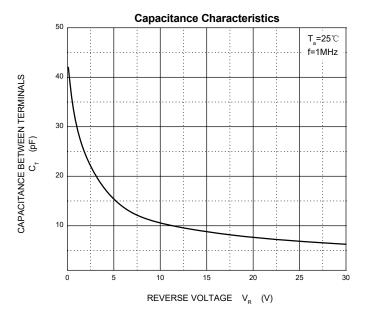
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit	
Reverse voltage	$V_{(BR)}$	I _R =100μA	40			V	
Reverse current		V _R =30V			5	μA	
	I _R	V _R =20V			2		
		V _R =10V			1		
Forward voltage		I _F =1mA		0.27		V	
		I _F =5mA		0.32			
	V _F	I _F =20mA			0.37		
		I _F =200mA			0.6		
Total capacitance	C _{tot}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

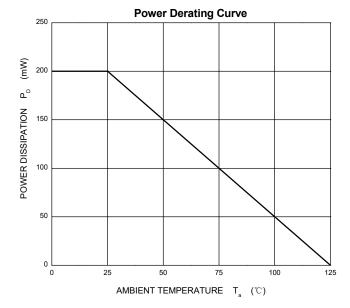


Typical Characteristics

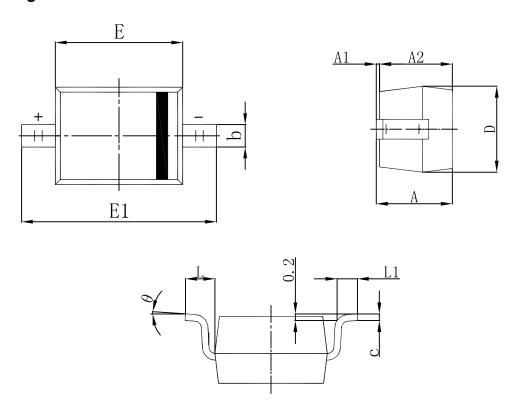








SOD-323 Package Outline Dimensions



Symbol	Dimensions	In Millimeters	Dimensions In Inches		
	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	
Е	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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