

■ General Purpose Rectifier Applications

■ Features

- Fast Switching Speed
- For General Purpose Switching Applications.
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion

Pinning

1.Cathode	2.Anode
	
	
SOD-323	

Marking Code

1N4001WS	T1
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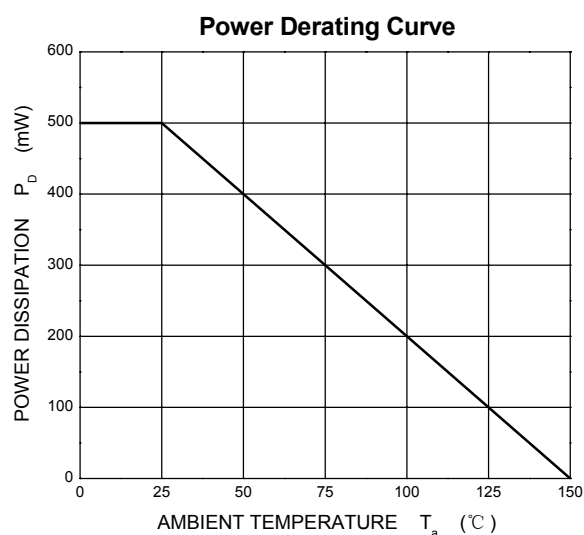
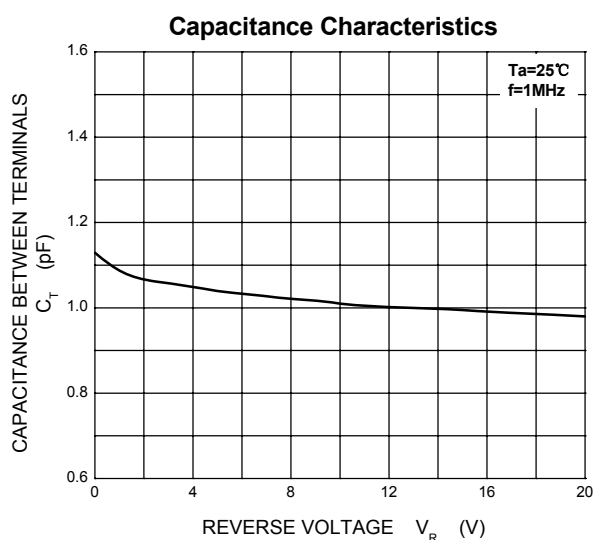
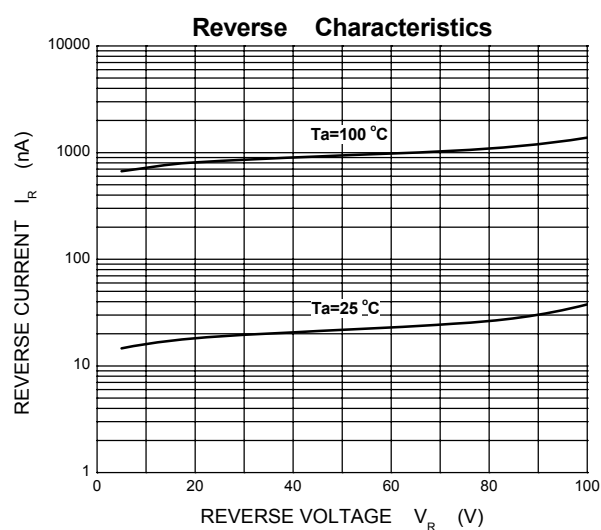
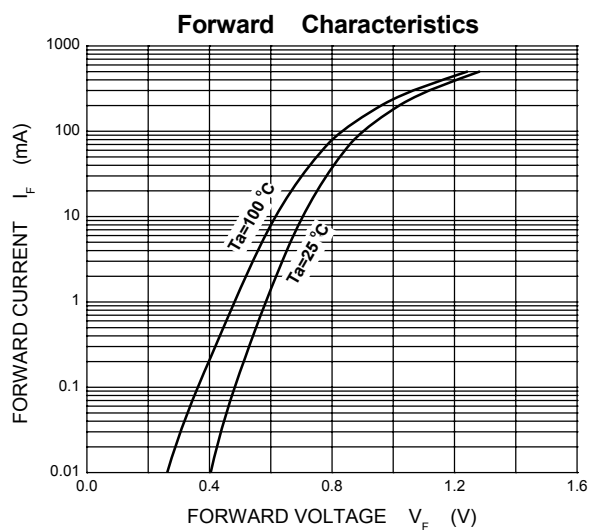
■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _{RM}	120	
Peak Repetitive Peak Reverse Voltage	V _{RRM}	120	
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	71	
Average Rectified Output Current	I _O	150	mA
Forward Continuous Current	I _{FM}	300	
Peak Forward Surge Current @ t=1us	I _{FSM}	2	A
@ t =1s		1	
Power Dissipation	P _d	500	mW
Thermal Resistance Junction to Ambient	R θ JA	250	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature range	T _{stg}	-55 to 150	

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V _R	I _R = 100uA	100			V
Forward voltage	V _{F1}	I _F = 1mA			0.715	
	V _{F2}	I _F = 10 mA			0.855	
	V _{F3}	I _F = 50 mA			1	
	V _{F4}	I _F = 150 mA			1.25	
Reverse voltage leakage current	I _{R1}	V _R = 75 V			1	uA
	I _{R2}	V _R =20 V			25	nA
Junction capacitance	C _j	V _R = 0 V, f= 1 MHz			2	pF
Reverse recovery time	t _{rr}	I _F =I _R =10mA, I _{rr} =0.1xI _R , R _L =100Ω			4	ns

■ Typical Characteristics



Ordering information

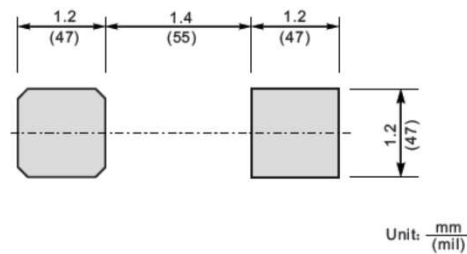
Package	Packing Description	Packing Quantity
SOD-323	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-323

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
C	0.08	0.15	3.1	5.9
D	1.2	1.4	47	55
E	1.4	1.8	63	70
E1	2.55	2.75	100	108
b	0.25	0.4	9.8	16
L1	0.2	0.45	7.9	16
A1	-	0.2	-	8
∠	9°			

The recommended mounting pad size



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