

Green Products

1N4448WS FAST SWITCHING DIODE

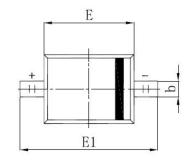
Features:

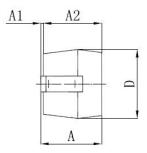
- Small Package
- Low Reverse Current
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion

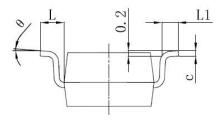
Mechanical Data:

- Case: SOD-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Marking: T5
- Weight: 0.004 grams(approx)

Mechanical Dimensions: In mm / Inches







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
A		1.000	- 9	0.039	
A1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
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	2.700	0.098	0.106	
L	0.475 REF		0.019 REF		
L1	0.250	0.400	0.010	0.016	
θ	0°	8°	0°	8°	

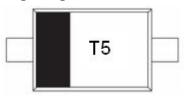
SOD-323(CJ)

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 - http://www.smc-diodes.com sales@ smc-diodes.com •



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Marking Diagram:



T5 = Part Name

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
1N4448WS	SOD-323(Pb-Free)	3000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

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Maximum Ratings @Ta=25℃

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	75	V
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current	I _{FM}	500	mA
Average Rectified Output Current	lo	250	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	А
Power Dissipation	P _D	200	mW
Thermal Resistance, Junction to Ambient	R _{0JA}	625	°C/W
Junction and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

Electrical Characteristics @Ta=25 ℃

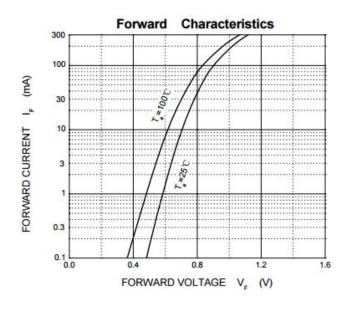
Characteristics	Symbol	Condition	Min.	Max.	Units
Forward Voltage Drop	V_{F1}	@ 5mA, Pulse, T _J = 25 °C	0.62	0.72	V
		@ 10mA, Pulse, T _J = 25 °C		0.855	
		@ 100mA, Pulse, T _J = 25 °C		1.0	
		@ 150mA, Pulse, T _J = 25 °C		1.25	
Reverse Current	I _{R1}	@V _R = 75V, Pulse,		2.5	μA
		T _J = 25 °C			
	I_{R2}	@ V _R = 20V, Pulse,		25	nA
		T _J = 25°C			
Capacitance between terminals	Ст	@V _R = 0 V, Tc=25℃		4	pF
		fsig = 1MHz			
Reverse Recovery Time	t _{rr}	I _F =10mA I _R = 10mA		4	ns
		$T_J = 25 ^{\circ}\text{C} \text{I}_{rr} = 1 \text{mA} \text{R}_L = 100 \Omega$			

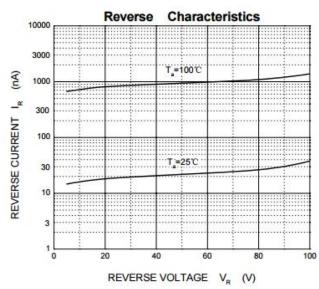
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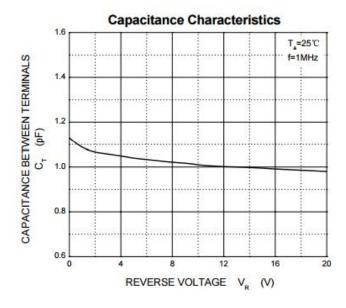
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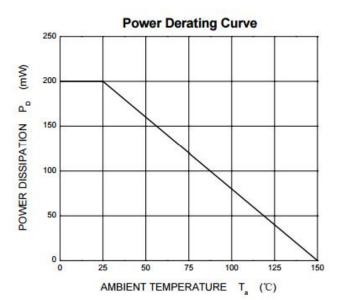
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Typical Characteristics









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