

Features

- Average Rectified Forward Current:I_{F(AV)}=250 mA
- Power Dissipation of 400mw

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
1N4448W-7-F	SOD-123	T5	3000



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

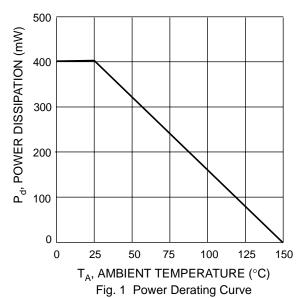
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	100	V
Reverse Voltage	V_R	80	V
Average Rectified Forward Current	I _{F(AV)}	150	mA
Forward Continuous Current	I _{FM}	300	mA
Non-Repetitive Peak Forward Surge Current (at t = 1 μs)	I _{FSM}	4	А
Power Dissipation	P _d	400	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

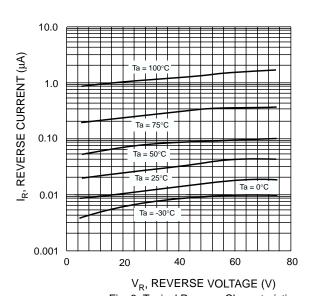
Electrical Characteristics (Ta=25°C unless otherwise specified)

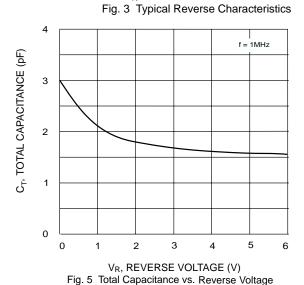
Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 5$ mA at $I_F = 10$ mA at $I_F = 100$ mA at $I_F = 150$ mA	V _F	0.62 - - -	0.72 0.855 1 1.25	V
Reverse Leakage Current at V_R = 80 V at V_R = 20 V at V_R = 75 V, T_J = 150 °C at V_R = 25 V, T_J = 150 °C	I _R		100 25 50 30	nA nA μA μA
Reverse Breakdown Voltage at I _R = 100 μA	$V_{(BR)R}$	80	-	V
Total Capacitance at $V_R = 0.5 \text{ V}$, $f = 1 \text{ MHz}$	C _{tot}	-	4	pF
Reverse Recovery Time at $I_F = I_R = 10$ mA, $I_{rr} = 0.1$ X I_R , $R_L = 100$ Ω	t _{rr}	-	4	ns

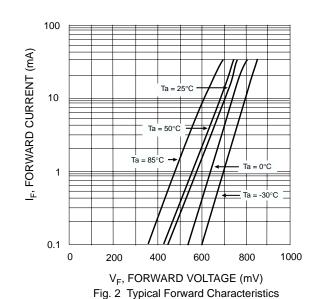


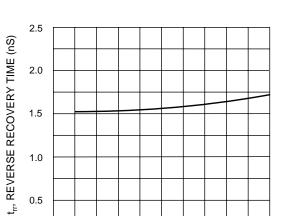
Typical Characteristics











0.5

0

0

2

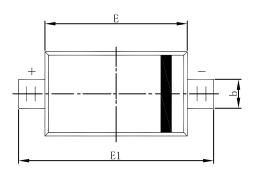
 I_{F} , FORWARD CURRENT (mA) Fig. 4 Reverse Recovery Time vs. Forward Current

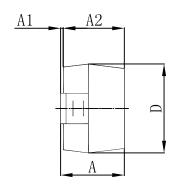
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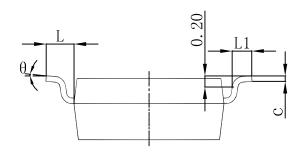
10



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	
Е	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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