Features

- Average Rectified Output Current:I_O=150 mA
- High Conductance

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
1N4148W-E3-08	SOD-123	T4	3000



SOD-123



Maximum Ratings(Ta=25 unless otherwise noted)

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Peak Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	100	V
DC Blocking Voltage	V_R		
RMS Reverse Voltage	$V_{R(RMS)}$	71	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	lo	150	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	А
Power Dissipation	Pd	350	mW
Thermal Resistance from Junction to Ambient(Note 1)	$R_{ heta JA}$	357.1	°C/W
Operation Junction and Storage Temperature Range	T_{J} , T_{STG}	-55~+150	°C

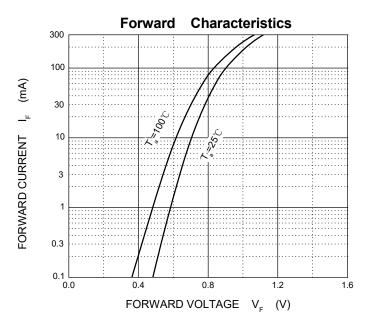
Note 1:Device mounted on 1"x1" FR4 PCB,1oz single-side copper.

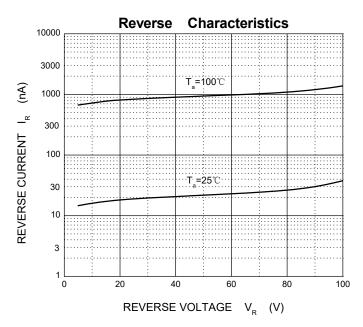
Electrical Characteristics(Ta=25 unless otherwise specified)

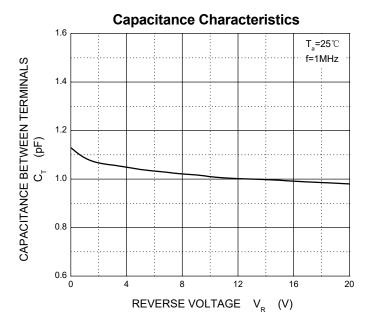
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
	V _{F1}			0.715	V	I _F =1mA
Famous de la cons	V _{F2}			0.855	V	I _F =10mA
Forward voltage	V _{F3}			1.0	V	I _F =50mA
	V _{F4}			1.25	V	I _F =150mA
Daviese assessed	I _{R1}			1	μA	V _R =75V
Reverse current	I _{R2}			25	nA	V _R =20V
Capacitance between terminals	Ст			2	pF	V _R =0V,f=1MHz
Poverce recovery time	+			4	ns	I _F =I _R =10mA
Reverse recovery time	t _{rr}					Irr=0.1 XI_R , R_L =100 Ω

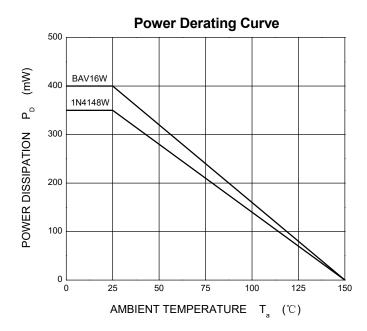


Typical Characteristics



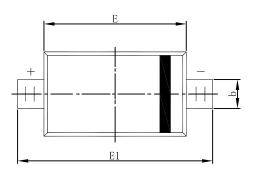


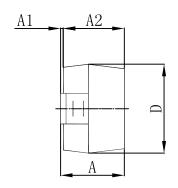


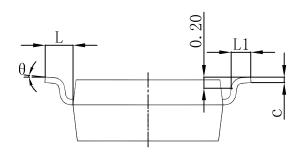




SOD-123 Package Outline Dimensions







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	
E	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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