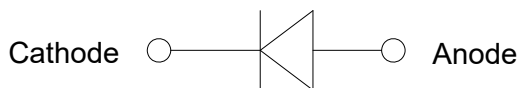


Small Signal Fast Switching Diode

1N4148W

SOD-123



Marking:T4

Features

- Fast switching Speed.
- Electrically Identical to Standard JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion.

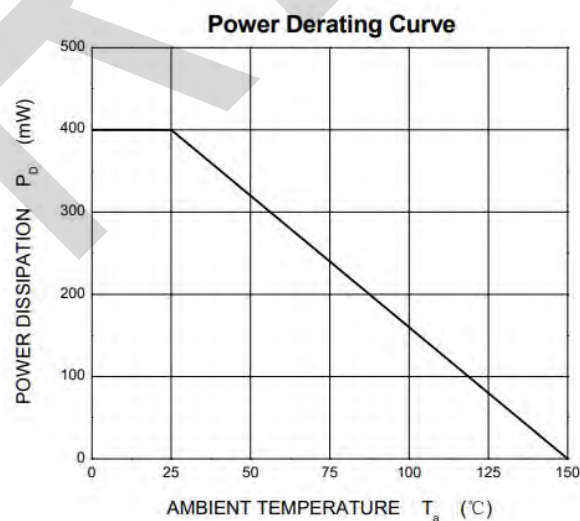
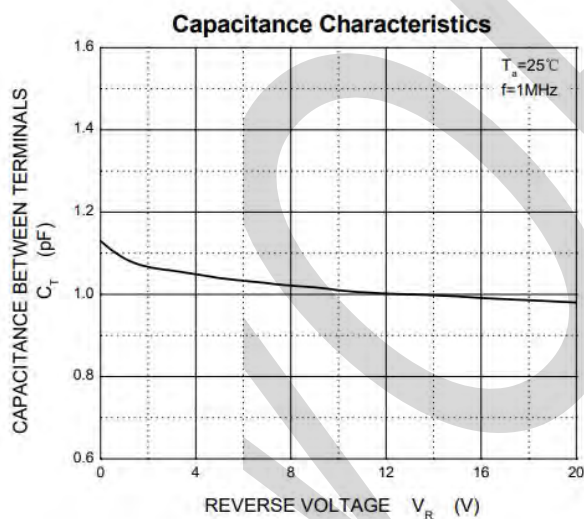
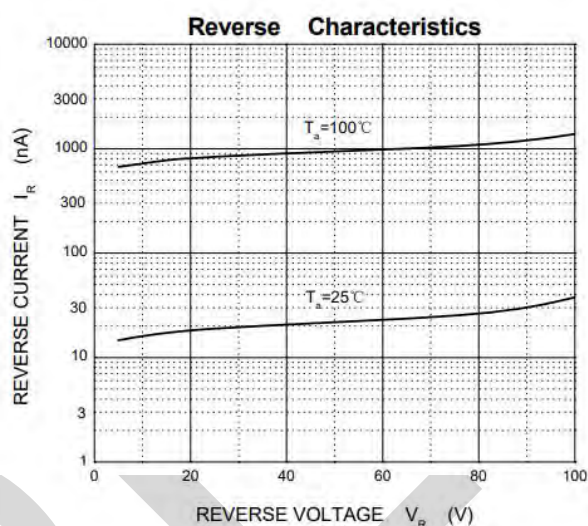
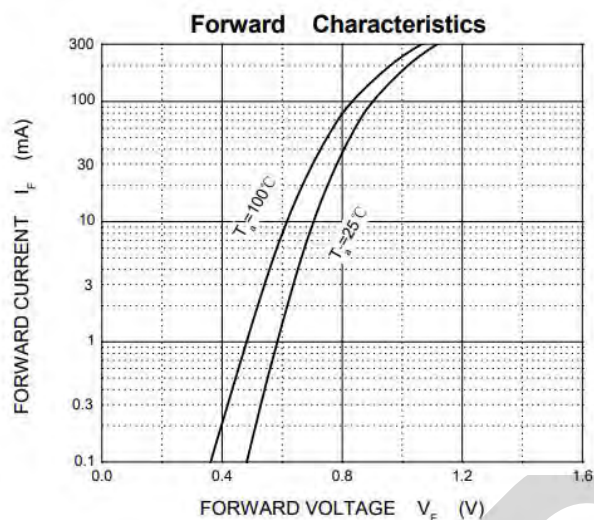
Mechanical Data

- Package: SOD-123
- Lead: lead solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end

■Maximum Ratings (T_a=25°C Unless otherwise specified)

Parameter	Symbols	1N4148W	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Power dissipation	P _d	400	mW
Operating junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-55 ~ +150	°C
Thermal Resistance From Junction to Ambient	R _{θJA}	312	°C/W
Average Rectified Output Current	I _o	150	mA
Non-repetitive Peak Forward Current	I _{FM}	300	mA
Reverse Recovery Time. I _F =0.5A, I _R =1A, I _{RR} =0.25A (Type)	T _{rr}	4.0	ns
Peak Forward Surge Current @t _p =1us, T _A =25°C	I _{FSM}	2	A
Maximum Forward Voltage at 10mA and 25°C	V _F	0.85	V
Maximum Forward Voltage at 0.15A and 25°C	V _F	1.25	V
Maximum DC Reverse Current @T _A =25°C	I _R	25@V _R =25V 100@V _R =75V	nA
Typical Junction Capacitance (V _R =0V, f=1MHz)	C _j	4.0	pF

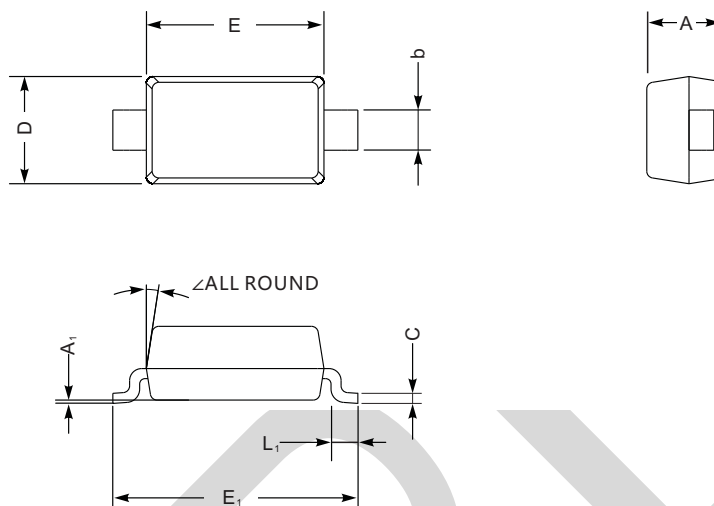
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



PACKAGE OUTLINE DIMENSIONS

Note: unit mm(Mil)

SOD-123



SOD-123 Mechanical Data

UNIT		A	C	D	E	E ₁	L ₁	b	A ₁	∠
mm	max	1.3	0.22	1.8	2.8	3.9	0.45	0.7	0.2	9°
	min	0.9	0.09	1.5	2.5	3.6	0.25	0.5	—	
mil	max	51	8.7	71	110	154	18	28	8	
	min	35	3.5	59	98	142	10	20	—	

SOD-123 Suggested Pad Layout

