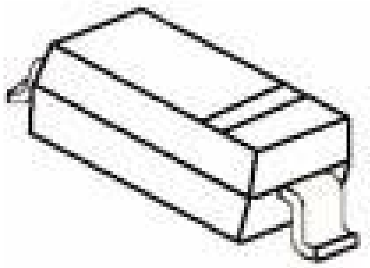
沂光集成

200mW SOD-323 Fast Switching Diode

1N4148WS

Features

SOD-323



Low reverse leakage

Fast Switching Device (TRR <4.0 nS)

Power Dissipation of 200mW

High Stability and High Reliability

Mechanical Data

Cases:SOD-323 Small Outline Plastic Package

Polarity: Color band denotes cathode end

Mounting Position: Any

MARKING: T4

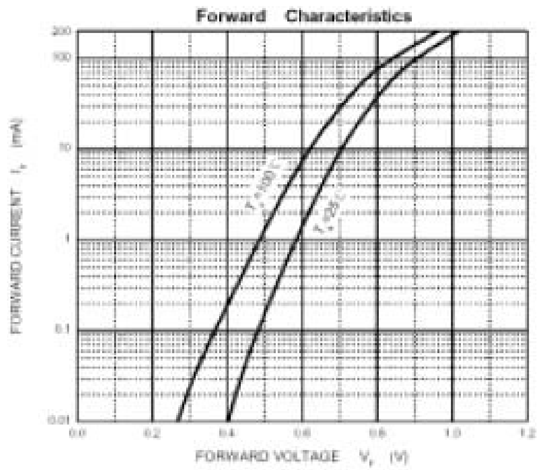
Maximum Ratings & Thermal Characteristics

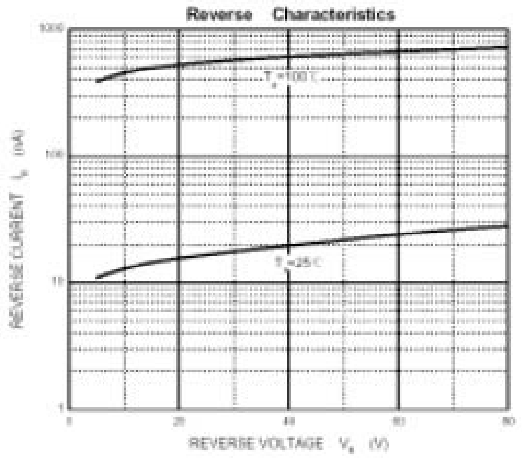
(Ratings at 25℃ ambient temperature unless otherwise specified.)

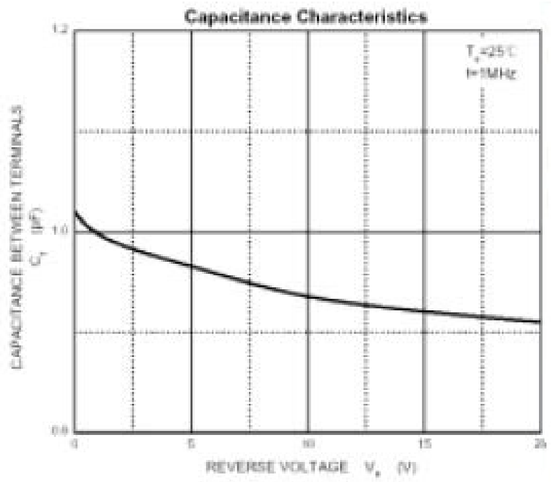
Parameters	Symbol	Value	Unit
Reverse Voltage	V_R	75	V
Peak Reverse Voltage	V_{RM}	100	V
Power Dissipation	Pd	200	mW
Operating junction temperature	Tj	150	℃
Storage temperature range	Ts	-65-+150	℃
Working Inverse Voltage	W_{IV}	75	V
Average Rectified Current	I_O	150	mA
Non-repetitive Peak Forward Current	I_{FM}	300	mA
Peak Forward Surge Current @ tp=1us; TA=25℃	I_{FSM}	2.0	A

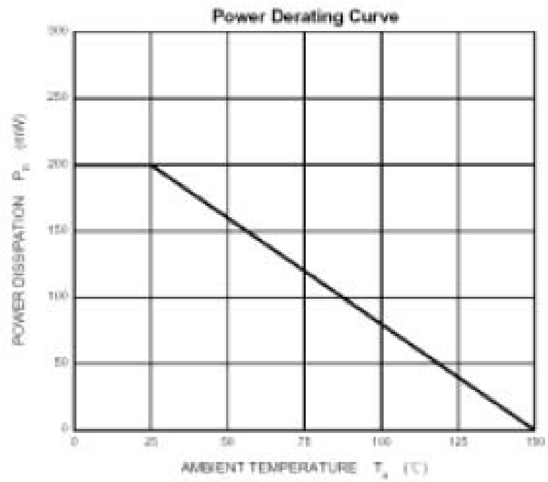
Electrical Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified).

Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	
BV	Breakdown Voltage	IR=100uA IR=5uA	100 75		V
IR	Reverse Leakage Current	VR=20V VR=75	--- ---	25 1	nA uA
V	Forward Voltage	IF=1.0mA IF=10mA IF=50mA IF=150mA	--- --- --- ---	0.715 0.855 1.00 1.25	V
TRR	Reverse Recovery Time	IF= IR=10mA RL=100Ω IRR=0.1 X IR	---	4	nS
CT	Capacitance	VR=0V, f=1MHZ	---	2	pF





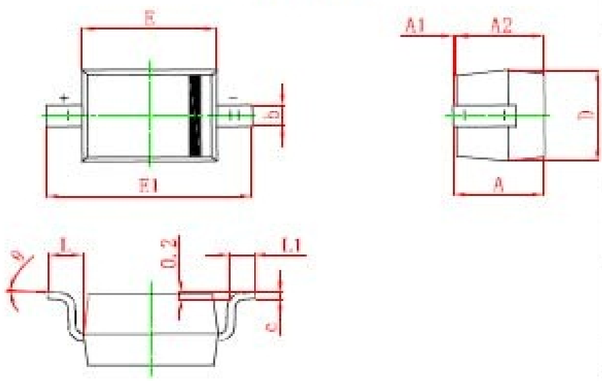




SOD-323 PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



Symbol	Min.(mm)	Max.(mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	0°	8°