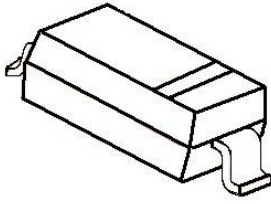


SOD-323 贴片塑封开关二极管

200mW SOD-323 Fast Switching Diode

SOD-323



MARKING:T4

特征 Features

- 开关速度小于4.0ns; Fast Switching Device($T_{rr} < 4.0\text{ns}$)
- 最大功率耗散 200mW; Power Dissipation of 200mW
- 高稳定性和可靠性。High Stability and High Reliability
- 反向漏电流小。Low reverse leakage

机械数据 Mechanical Data

- 封装: SOD-323 封装 SOD-323 Small Outline Plastic Package
- 极性:色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any
- Device meets MSL 1 requirements

极限值和温度特性($T_A = 25^\circ\text{C}$ 除非另有规定)

Maximum Ratings & Thermal Characteristics ($T_A=25^\circ\text{C}$ unless otherwise specified)

参数 Parameters	符号 Symbol	数值 Value	单位 Unit
反向电压 Reverse Voltage	V_R	75	V
反向峰值电压 Peak Repetitive Reverse Voltage	V_{RRM}	100	V
功率消耗 Power Dissipation	P_d	200	mW
工作结温 Operating junction temperature	T_j	125	$^\circ\text{C}$
存储温度 Storage temperature range	T_s	-55-+150	$^\circ\text{C}$
热阻抗 Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	625	$^\circ\text{C/W}$
反向工作电压 Working Inverse Voltage	W_{IV}	75	V
平均整流电流 Average Rectified Current	I_O	150	mA
正向(不重复)电流 Non-repetitive Peak Forward Current	I_{FM}	300	mA
正向(不重复)浪涌电流 Peak Forward Surge Current @ $t_p=1\mu\text{s}$; $T_A=25^\circ\text{C}$	I_{FSM}	2.0	A

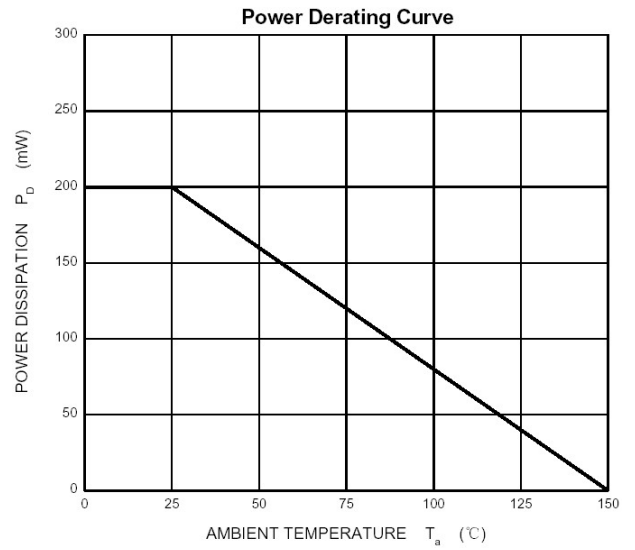
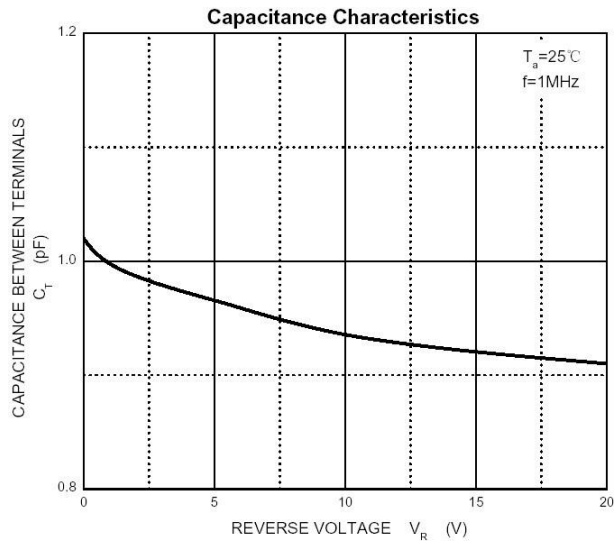
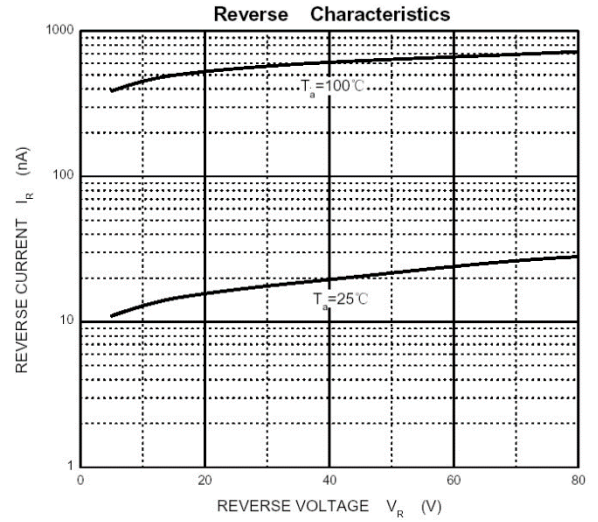
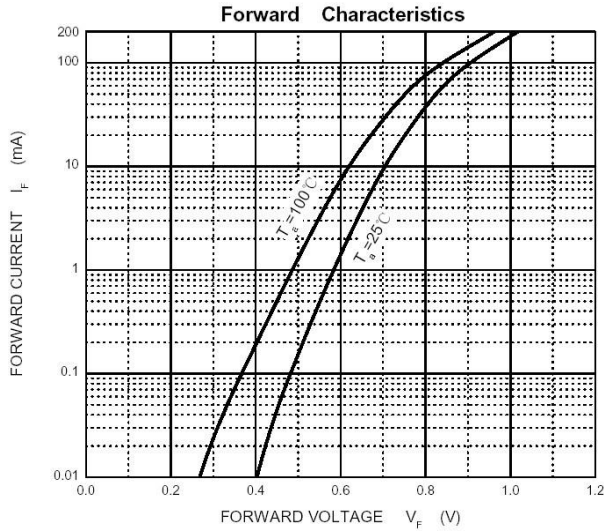
Valid provided that electrodes are kept at ambient temperature.

电特性 Electrical Characteristics($T_A=25^\circ\text{C}$ unless otherwise specified)

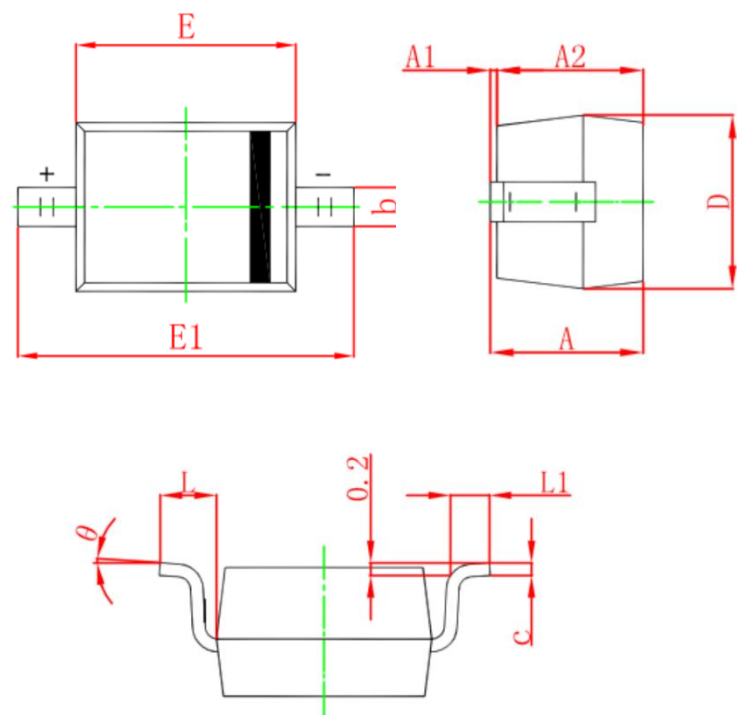
符号 Symbols	参数 Parameter	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
V_{BR}	反向击穿电压 Reverse Voltage	$I_R=5\mu\text{A}$	75	---	V
		$I_R=100\mu\text{A}$	100	---	
I_R	反向漏电流 Reverse Leakage Current	$V_R=20\text{V}$	---	25	nA
		$V_R=75\text{V}$	---	5	μA
V_F	正向电压 Forward Voltage	$I_F=1\text{mA}$	---	0.715	V
		$I_F=10\text{mA}$	---	0.855	
		$I_F=50\text{mA}$	---	1.0	
		$I_F=150\text{mA}$	---	1.25	

T_{rr}	反向恢复时间 Reverse Recovery Time	$I_F = I_R = 10\text{mA}, R_L = 100\Omega$ $I_{RR} = 0.1 \times I_R$	---	4	nS
C_T	结电容 Capacitance	$V_R = 0\text{V}, f = 1\text{MHz}$	---	2	pF

Typical Performance Characteristics (T_A=25°C unless otherwise Specified)

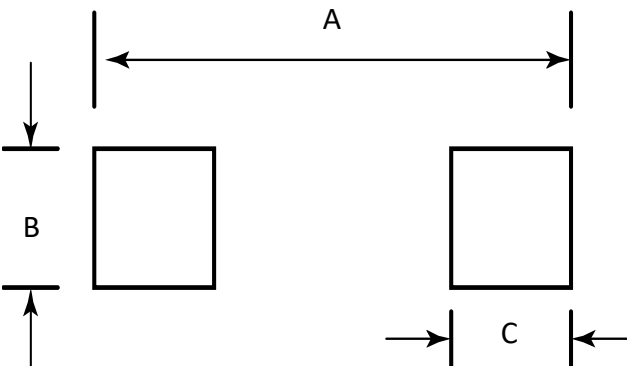


SOD-323 Package Outline Drawing



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°

Suggested Land Pattern



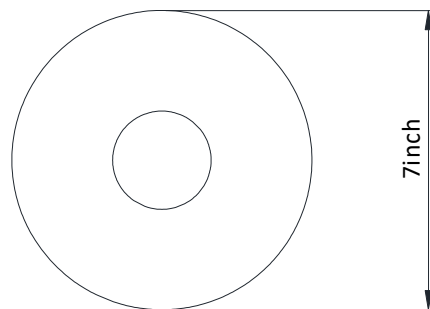
SYM	DIMENSIONS	
	MILLIMETERS	INCHES
A	3.15	0.120
B	0.80	0.031
C	0.80	0.031

Ordering Information

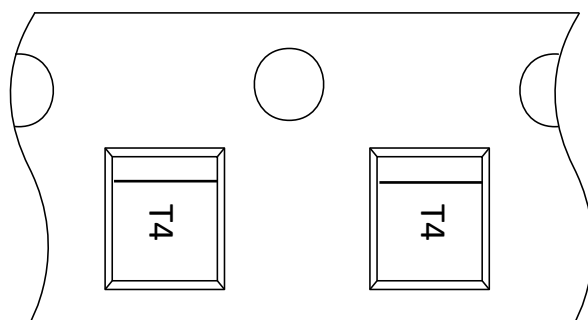
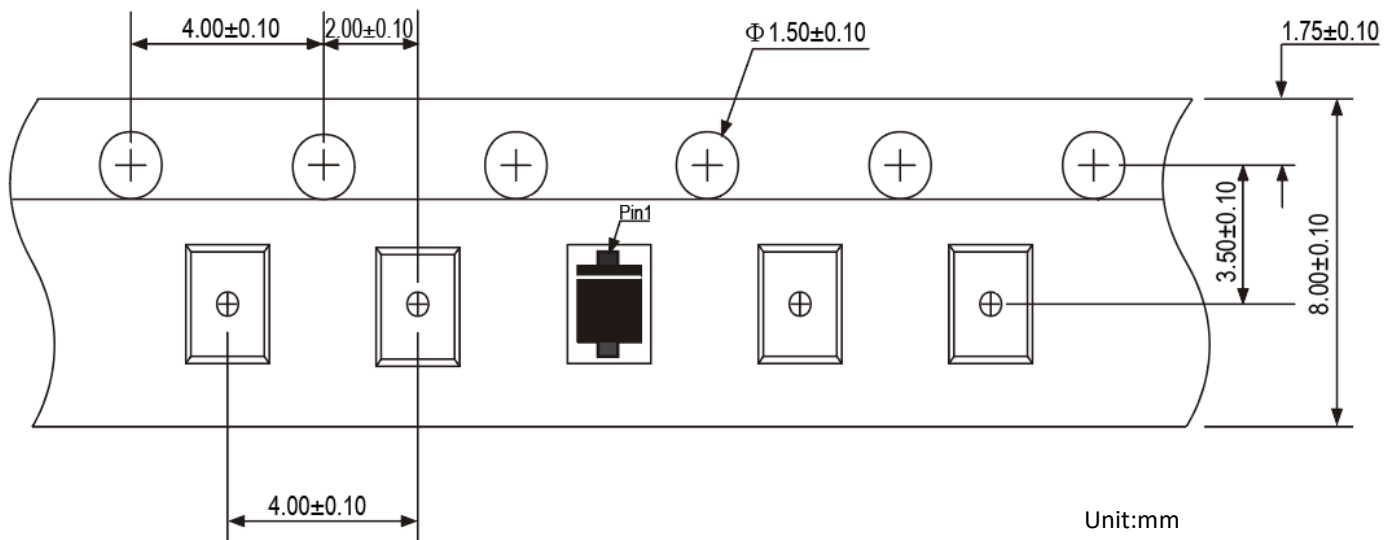
Part Number	Shipping	Reel Size
1N4148WS	3000/Tape & Reel	7 inch

TAPE AND REEL INFORMATION

Reel Dimensions



Tape Dimensions



User Direction of Feed

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