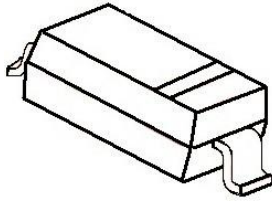


SOD-123 贴片塑封开关二极管

500mW SOD-123 Fast Switching Diode

SOD-123



MARKING:T5

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 500mW; Power Dissipation of 500mW
- 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-123 封装 SOD-123 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)

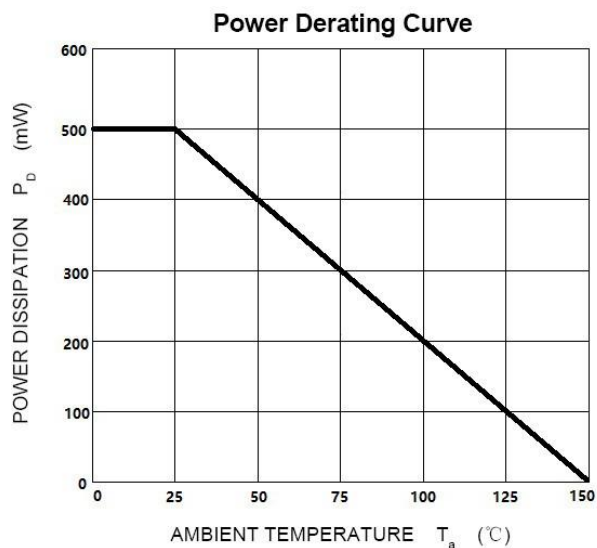
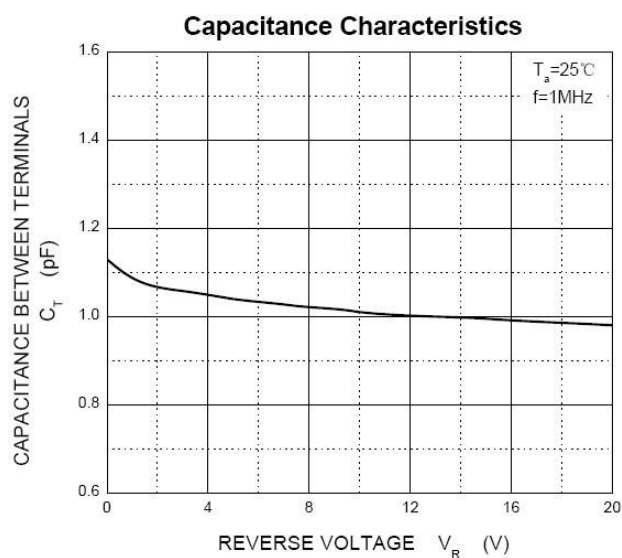
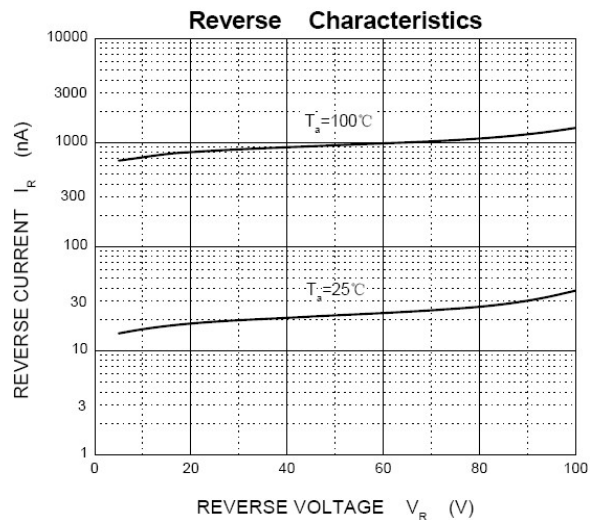
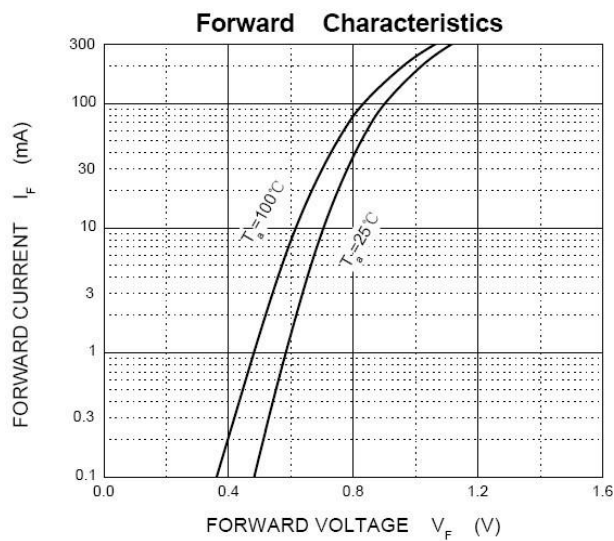
参数 Parameters	符号 Symbol	数值 Value	单位 Unit
反向电压 Reverse Voltage	V_R	75	V
反向峰值电压 Peak Reverse Voltage	V_{RRM}	100	V
功率消耗 Power Dissipation	P_d	500	mW
工作结温 Operating junction temperature	T_j	150	$^\circ\text{C}$
存储温度 Storage temperature range	T_{STG}	-55-+150	$^\circ\text{C}$
平均整流电流 Average Rectified Forward Current	I_O	200	mA
正向(不重复)电流 Non-repetitive Peak Forward Current	I_{FM}	500	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.

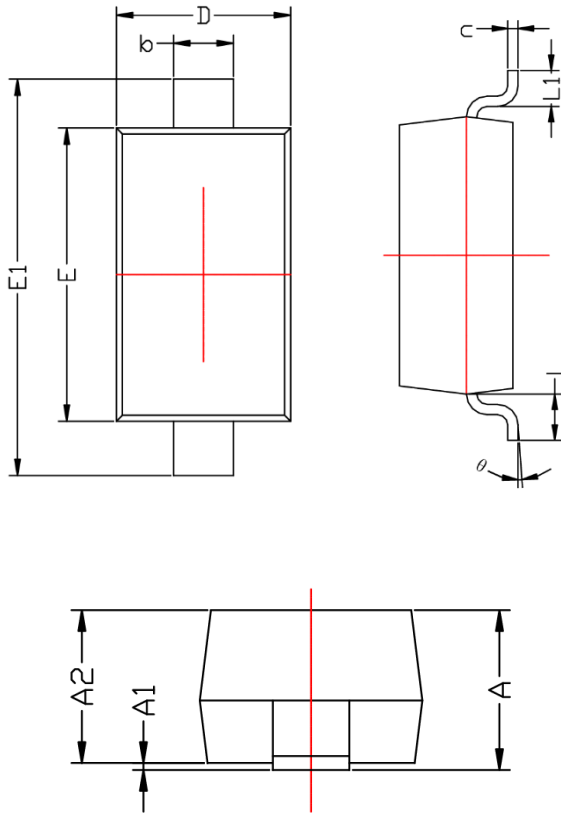
电特性 Electrical Characteristics($T_A=25^\circ\text{C}$ unless otherwise specified)

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	$I_F=5\text{mA}$	---	0.72	V
		$I_F=10\text{mA}$	---	0.855	
		$I_F=100\text{mA}$	---	1.0	
		$I_F=150\text{mA}$	---	1.25	
T_{rr}	反向恢复时间 Reverse Recovery Time	$I_F=I_R=10\text{mA}$, $R_L=100\Omega$ $I_{RR}=0.1\text{mA}$	---	4	nS
C_T	结电容 Capacitance	$V_R=0\text{V}$, $f=1\text{MHz}$	---	4	pF

Typical Performance Characteristics ($T_A=25^\circ\text{C}$ unless otherwise Specified)

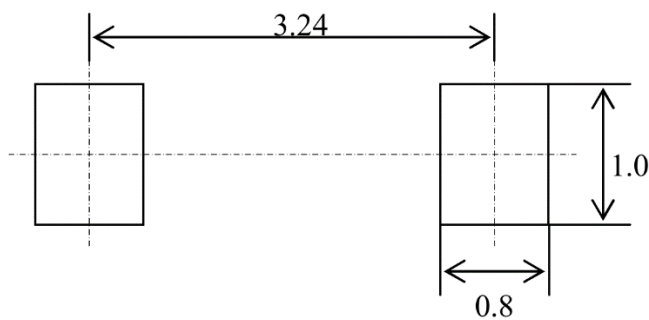


SOD-123 Package Outline Drawing



SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	1.050	1.250
A1	0.000	0.100
A2	1.050	1.150
b	0.450	0.650
c	0.080	0.150
D	1.500	1.700
E	2.600	2.800
E1	3.550	3.850
L	0.500REF	
L1	0.250	0.450
θ	0°	8°

Suggested Land Pattern



技术要求:

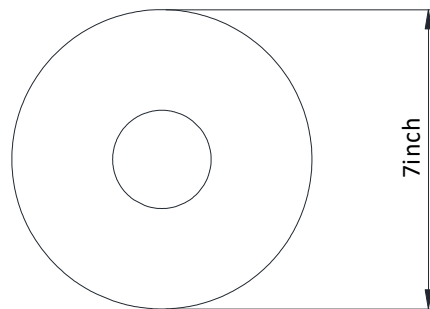
- 1, 塑封体尺寸: 2.70 X 1.60
 - 2, 未注公差为: ± 0.05
 - 3, 所有单位: mm
- 中心距: 3.24
脚 宽: 0.55
焊盘宽: 1.00
脚 长: 0.50
焊盘长: 0.80

Ordering Information

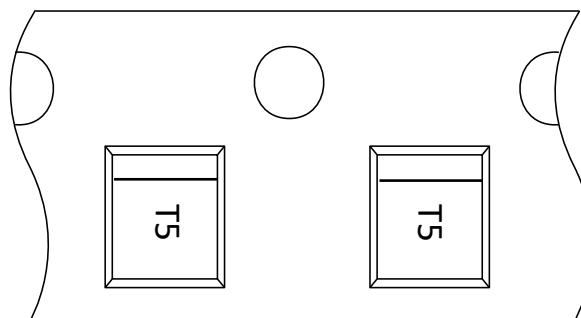
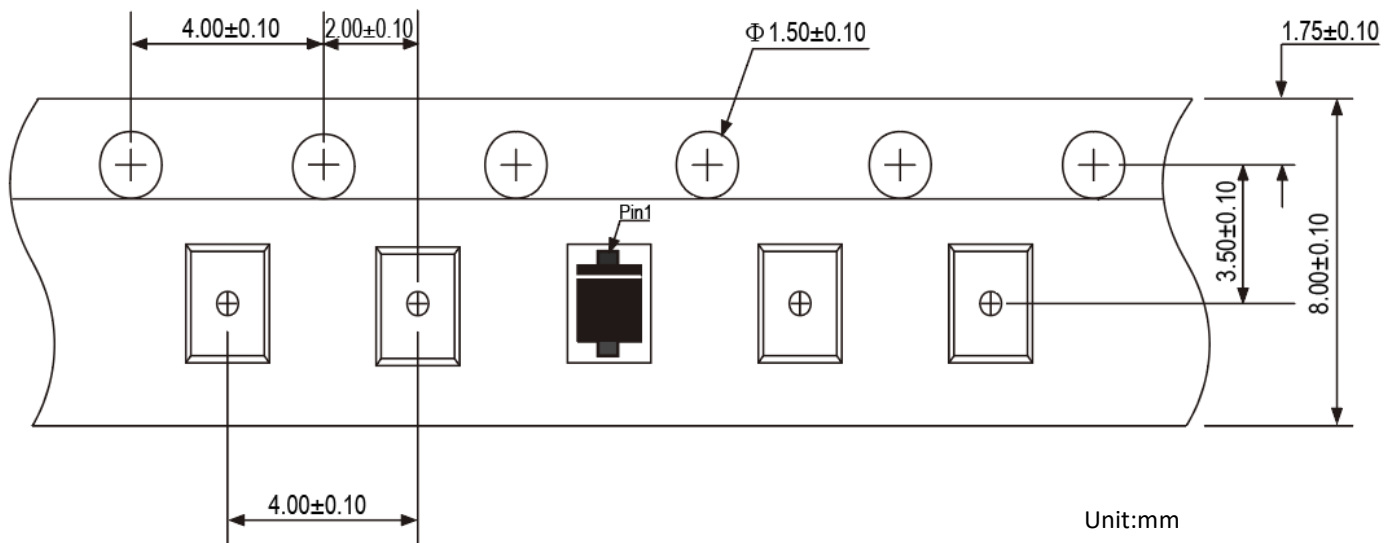
Part Number	Shipping	Reel Size
1N4448W	3000/Tape & Reel	7 inch

TAPE AND REEL INFORMATION

Reel Dimensions



Tape Dimensions



User Direction of Feed

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