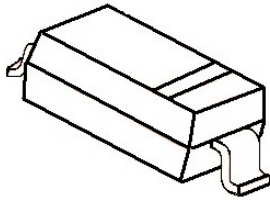


SOD-123

**400mW SOD-123 Fast Switching Diode**



MARKING: W1

**特征 Features**

- 开关速度小于 50nS; Fast Switching Device (TRR <50 nS)
- 最大功率耗散 400mW; Power Dissipation of 400mW
- 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
- 环氧树脂 UL 易燃等级 Epoxy UL: 94V-0
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性(TA = 25℃ 除非另有规定)

**Maximum Ratings & Thermal Characteristics** (Ratings at 25℃ ambient temperature unless otherwise specified.)

参数 Parameters	符号 Symbol	数值 Value	单位 Unit
反向电压 Repetitive Reverse Voltage	VRRM	100	V
功率消耗 Power Dissipation	Pd	400	mW
工作结温 Operating junction temperature	Tj	150	℃
存储温度 Storage temperature range	Ts	-65-+150	℃
反向工作电压 Working Inverse Voltage	WIV	75	V
平均整流电流 Average Rectified Forward Current	IF(V)	200	mA
正向(不重复)电流 Non-repetitive Peak Forward Current	IFM	300	mA
正向(不重复)浪涌电流 @tp=1s	IFSM	1.0	A
Peak Forward Surge Current TA=25℃ @tp=1us;		2.0	

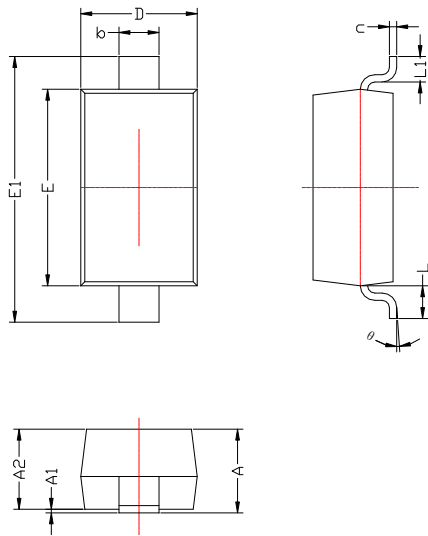
Valid provided that electrodes are kept at ambient temperature.

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

符号 Symbols	参数 Parameter	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
BV	反向击穿电压 Breakdown Voltage	IR=100uA	100	---	V
		IR=5uA	75	---	
IR	反向漏电流 Reverse Leakage Current	VR=20V	---	25	nA
		VR=75	---	5	uA
VF	正向电压 Forward Voltage	IF=10mA	---	1.00	V
TRR	反向恢复时间 Reverse Recovery Time	IF= 30mA, IR=30mA RL=100Ω IRR=3mA	---	50	nS
C	结电容 Capacitance	VR=0V, f=1MHZ	---	4	pF

**SOD-123 PACKAGE OUTLINE**

Plastic surface mounted package

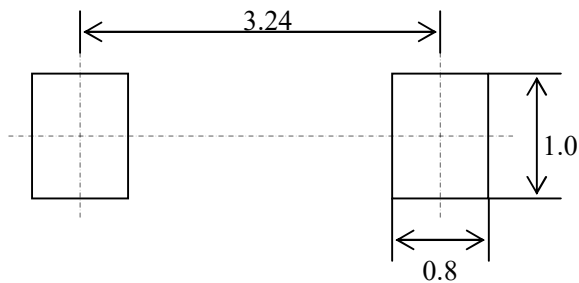


SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	1.050	1.250
A1	0.000	0.100
A2	1.050	1.150
b	0.450	0.650
c	0.080	0.150
D	1.500	1.700
E	2.600	2.800
E1	3.550	3.850
L	0.500REF	
L1	0.250	0.450
$\theta$	0°	8°

**焊盘设计参考**

Precautions: PCB Design

Recommended land dimensions for SOD-123 diode. Electrode patterns for PCBs



中心距: 3.24  
脚宽: 0.55  
焊盘宽: 1.00  
脚长: 0.50  
焊盘长: 0.80

技术要求:

- 1, 塑封体尺寸: 2.70 X 1.60
- 2: 未注公差为:  $\pm 0.05$
- 3, 所有单位: mm