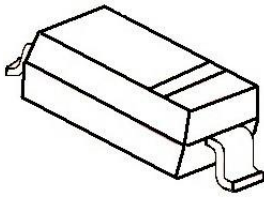


SOD-123 贴片塑封肖特基二极管

SOD-123 Plastic-Encapsulate Schottky Barrier Diode

SOD-123



MARKING:S7

特征 Features

- 大电流承受能力。High Current Capability
- 正向压降低。Low Forward Voltage Drop

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Eproxy UL:94V-0
- 安装位置: 任意 Mounting Position: Any
- Device meets MSL 1 requirements

极限值和温度特性(TA = 25℃ 除非另有规定)

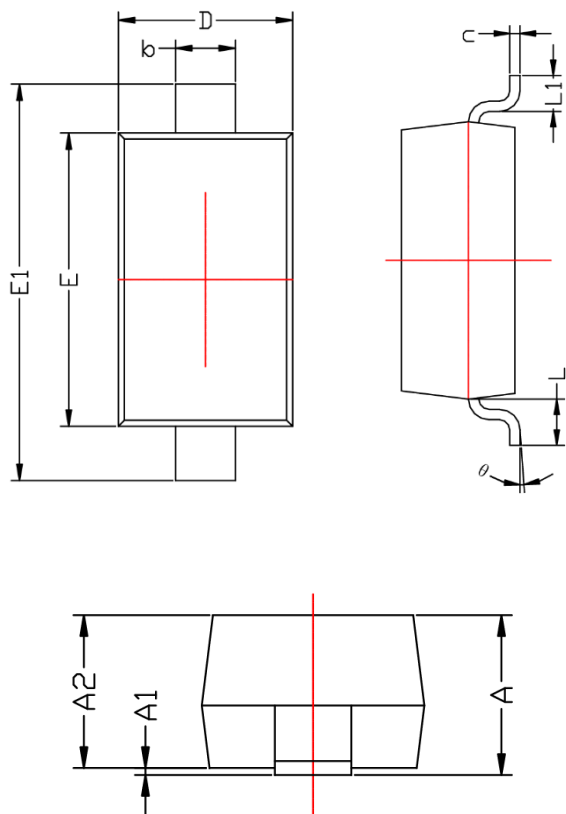
Maximum Ratings & Thermal Characteristics (TA=25℃ unless otherwise specified)

参数 Parameters	符号 Symbol	数值 Value	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V _{RRM}	30	V
最大均方根电压 Maximum RMS voltage	V _{RMS}	21	V
最大直流阻断电压 Maximum DC blocking voltage	V _{DC}	30	V
最大正向平均整流电流 Maximum average forward rectified current	I _{FM}	200	mA
峰值重复正向电流 Repetitive Peak Forward Current @t<1.0s	I _{FRM}	500	mA
峰值正向浪涌电流8.3ms单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave	I _{FSM}	4.0	A
典型热阻 Typical thermal resistance	R _{θJA}	200	℃/W
功率消耗 Power Dissipation	PD	500	mW
结温 Junction Temperature	T _j	125	℃
存储温度 Storage temperature range	T _{stg}	-50-+150	℃

电特性 Electrical Characteristics(TA=25℃ unless otherwise specified)

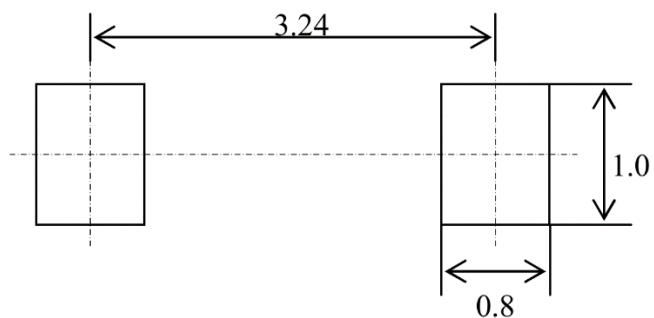
参数 Parameter	符号 Symbols	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
正向电压 Forward Voltage	V _F	I _F =200mA	---	1.0	V
		I _F =10mA	---	0.4	V
		I _F =50mA		0.65	V
反向电压 Reverse breakdown voltage	V _R	I _R =10uA	30	---	V
反向电流 Reverse current	I _R	V _R =25V	---	0.5	uA
典型结电容 Type junction capacitance	C _J	V _R = 1.0V, f = 1MHz	---	10	pF
反向恢复时间 Reverse recovery time	trr	I _F =I _R =10mA I _{rr} =0.1xI _R , R _L =100Ω		5	nS

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



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:

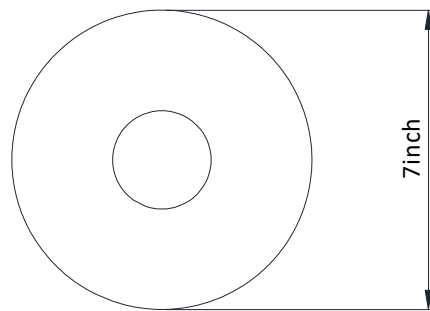
- 1, 塑封体尺寸: 2.70 X 1.60
- 2: 未注公差为: ± 0.05
- 3, 所有单位: mm

Ordering Information

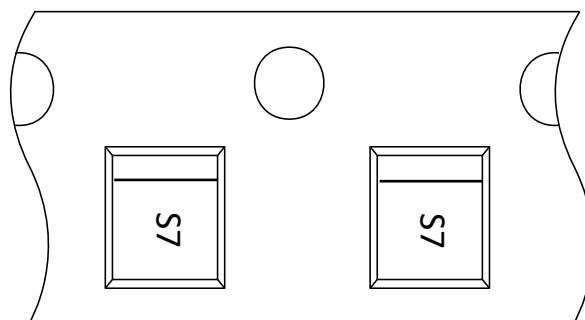
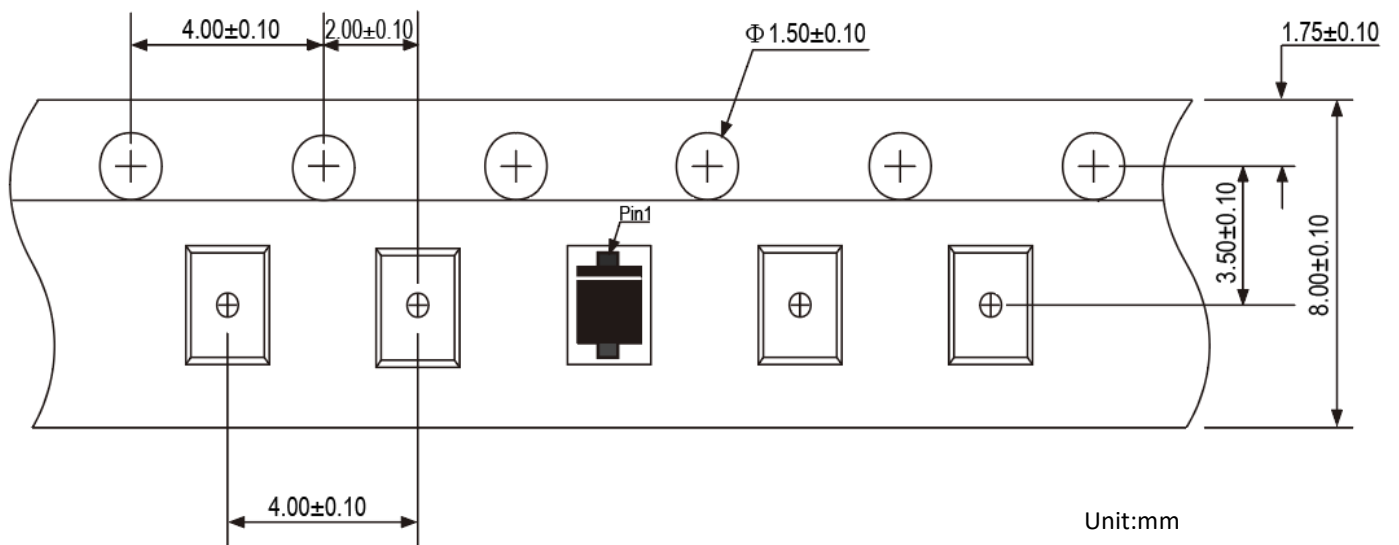
Part Number	Shipping	Reel Size
BAT42W	3000/Tape & Reel	7 inch

TAPE AND REEL INFORMATION

Reel Dimensions



Tape Dimensions



User Direction of Feed

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