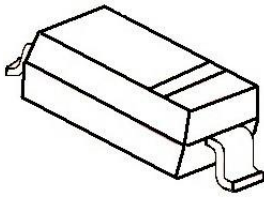


SOD-123 贴片塑封肖特基二极管

SOD-123 Plastic-Encapsulate Schottky Barrier Diode

SOD-123



MARKING:SD

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

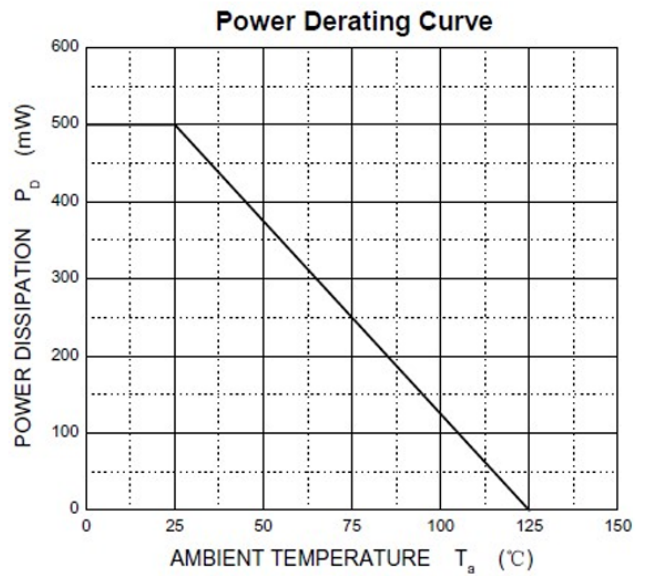
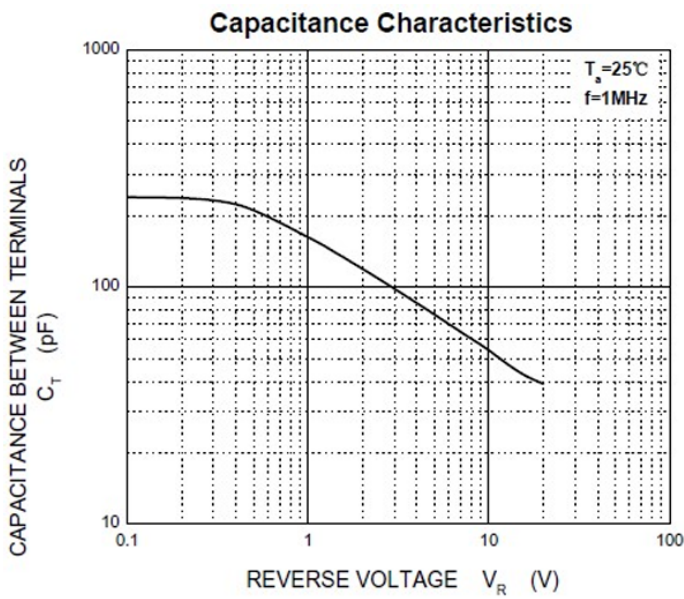
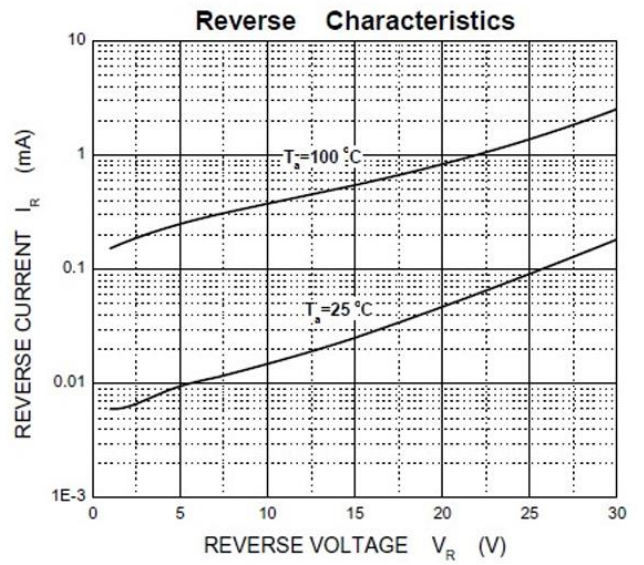
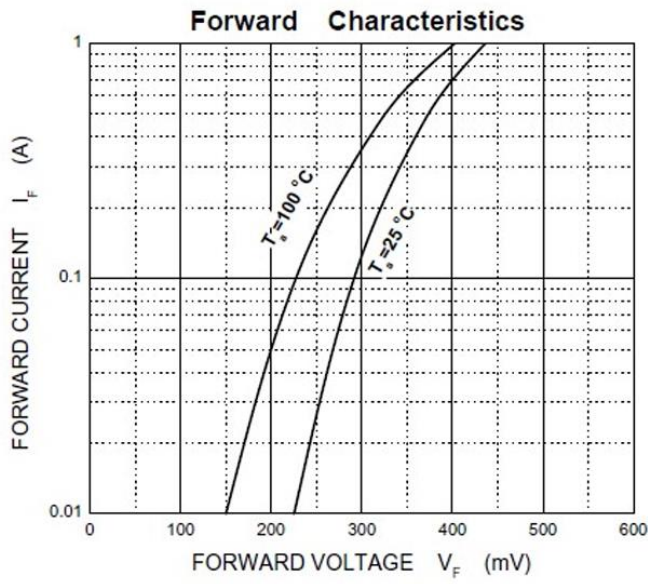
极限值和温度特性($T_A = 25^\circ\text{C}$ 除非另有规定)Maximum Ratings & Thermal Characteristics ($T_A=25^\circ\text{C}$ unless otherwise specified)

参数 Parameters	符号 Symbol	数值 Value	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	20	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	14	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	20	V
最大正向平均整流电流 Maximum average forward rectified current	I_{FM}	0.5	A
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}	5.5	A
典型热阻 Typical thermal resistance	$R_{\theta JA}$	200	$^\circ\text{C}/\text{W}$
功率消耗 Power Dissipation	PD	500	mW
存储温度 Storage temperature range	T_{stg}	-50-+150	$^\circ\text{C}$
Voltage rate of change	Dv/dt	1000	V/ μS

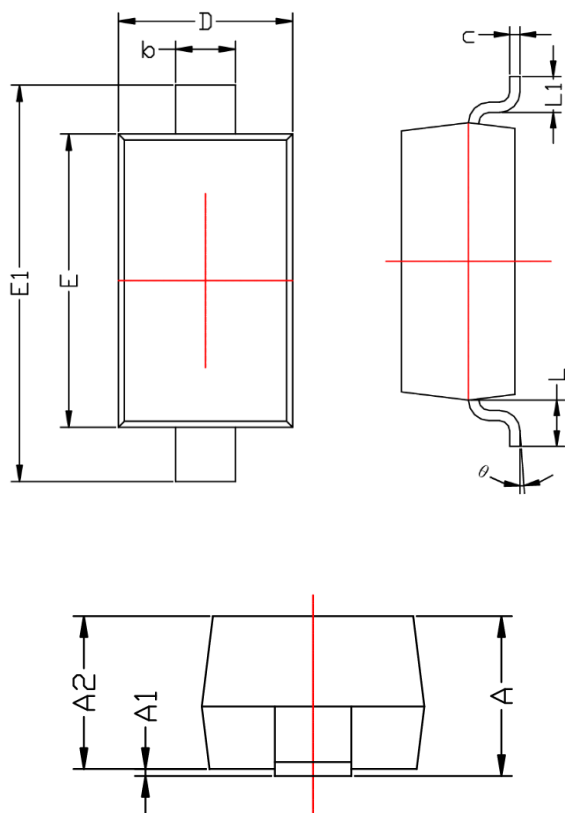
电特性 Electrical Characteristics($T_A=25^\circ\text{C}$ unless otherwise specified)

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	$I_F=0.1\text{A}$	---	0.330	V
		$I_F=0.5\text{A}$	---	0.385	V
反向电压 Reverse breakdown voltage	V_R	$I_R=250\mu\text{A}$	20	---	V
反向电流 Reverse current	I_R	$V_R=10\text{V}$	---	75	μA
		$V_R=20\text{V}$	---	250	
Capacitance between terminals	C_T	$V_R = 0\text{V}, f = 1\text{MHz}$	---	170	pF

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

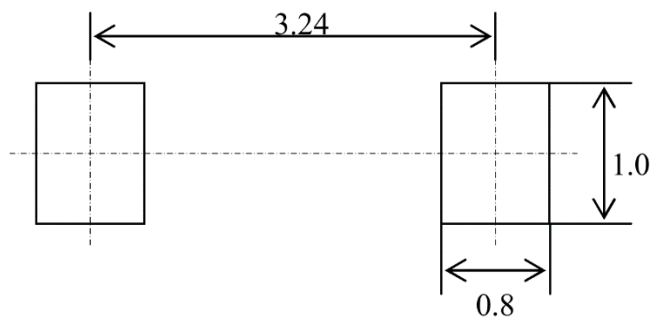


SOD-123 Package Outline Drawing



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



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:

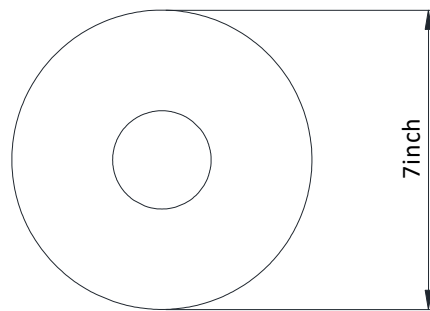
- 1, 塑封体尺寸: 2.70 X 1.60
- 2: 未注公差为: ± 0.05
- 3, 所有单位: mm

Ordering Information

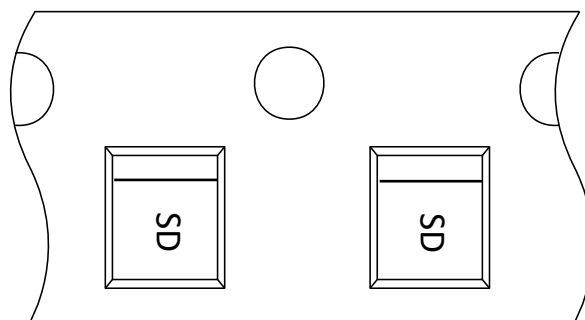
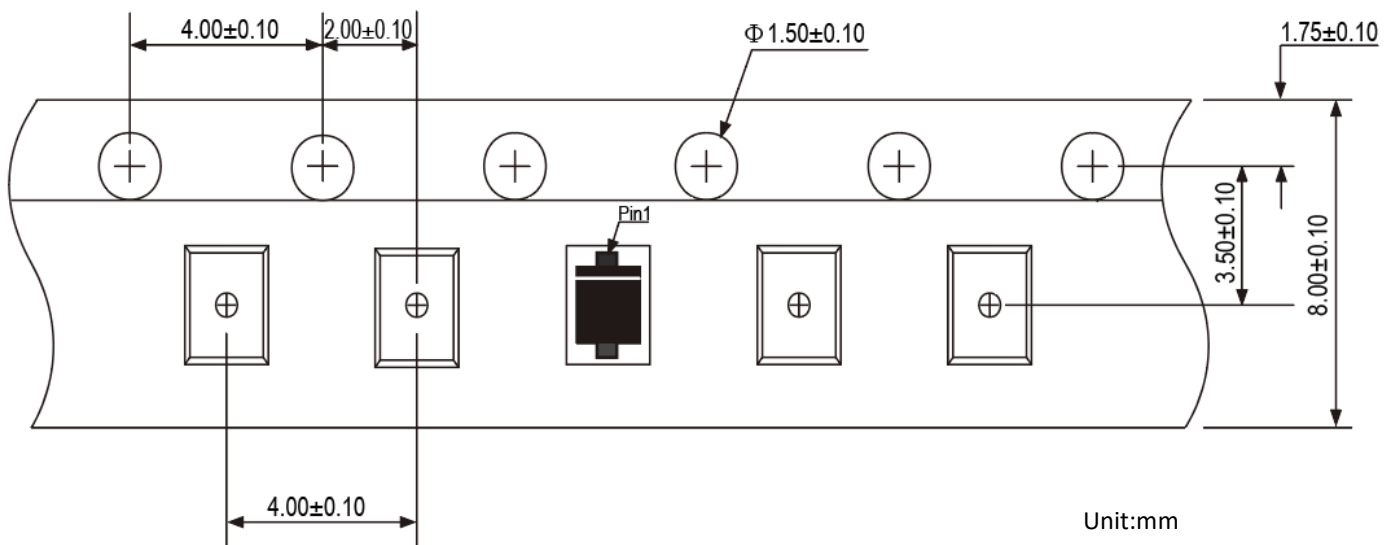
Part Number	Shipping	Reel Size
B0520W	3000/Tape & Reel	7 inch

TAPE AND REEL INFORMATION

Reel Dimensions



Tape Dimensions



User Direction of Feed

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