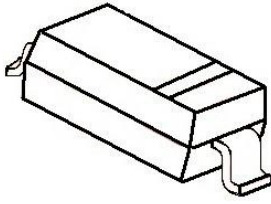


SOD-123 贴片塑封开关二极管

500mW SOD-123 Fast Switching Diode

SOD-123



MARKING:T2

特征 Features

- 开关速度小于 50nS; Fast Switching Device ($T_{rr} < 50nS$)
- 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
Non-Repetitive peak Reverse Voltage	V_{RM}	150	V
Peak Repetitive Reverse Voltage	V_{RRM}	200	V
Working Peak Reverse Voltage	V_{RWM}	200	V
DC Blocking Voltage	V_R	200	V
RMS Reverse Voltage	$V_R(RMS)$	106	V
Power Dissipation	P_d	500	mW
Operating junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature range	T_s	-55-+150	$^\circ\text{C}$
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	250	$^\circ\text{C/W}$
Average Rectified Forward Current	I_O	200	mA
Non-repetitive Peak Forward Current	I_{FM}	400	mA
Peak Forward Surge Current @ $t_p=1\mu s$; $T_A=25^\circ\text{C}$	I_{FSM}	2.0	A

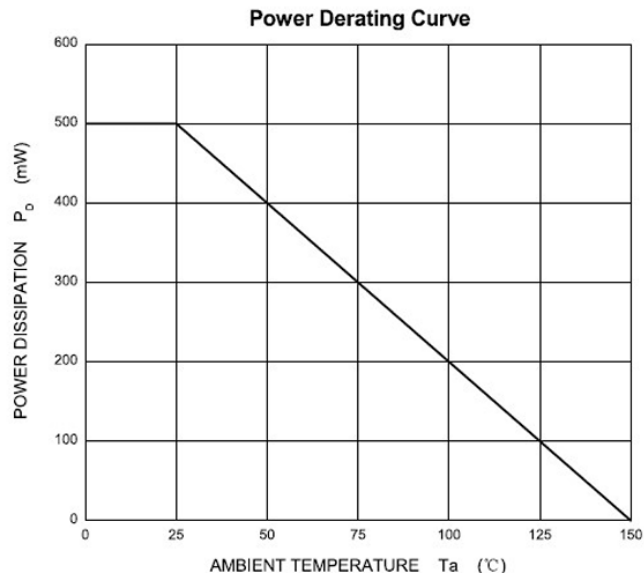
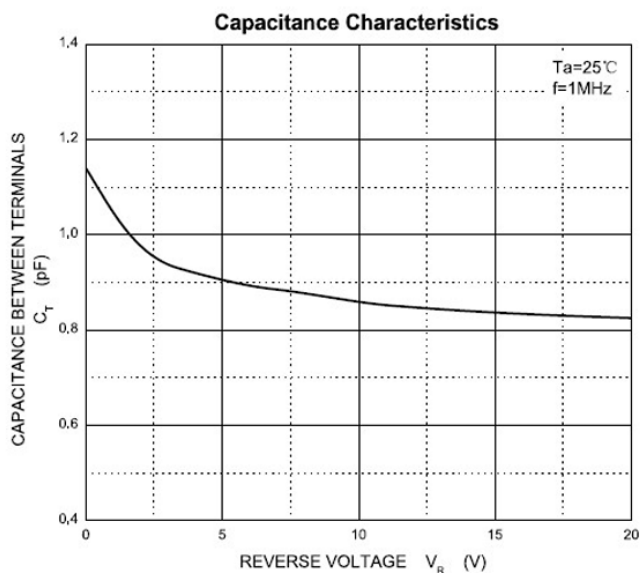
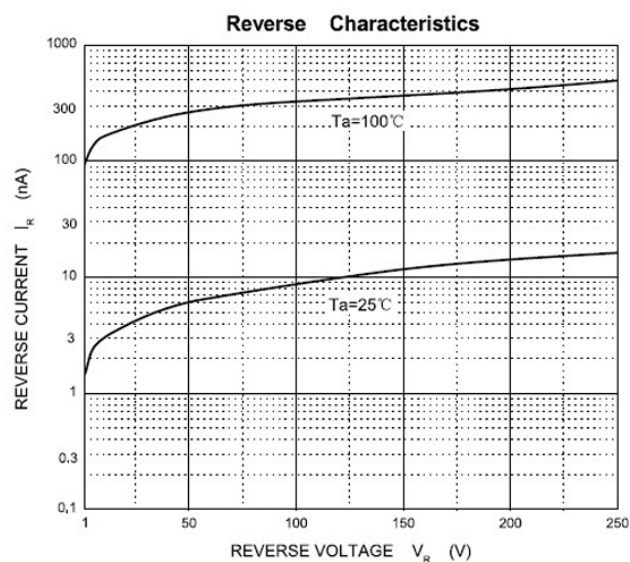
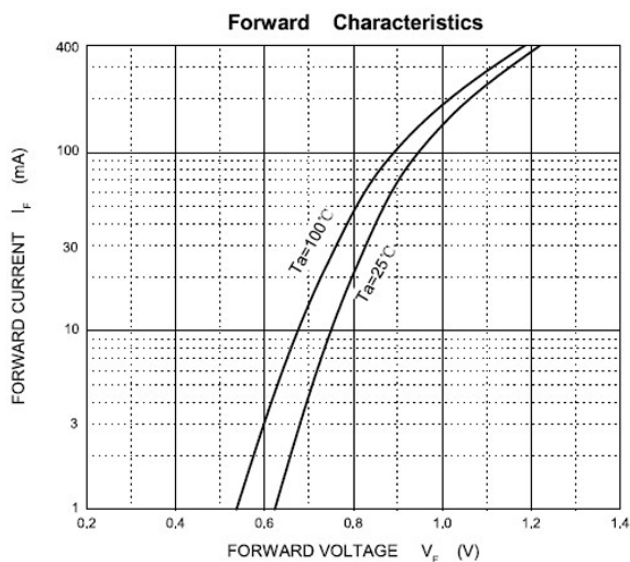
Valid provided that electrodes are kept at ambient temperature.

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

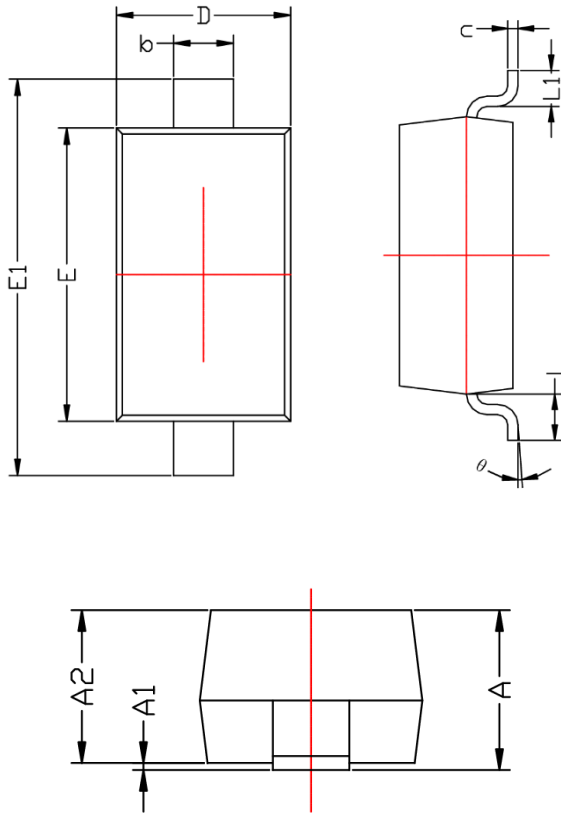
符号 Symbols	参数 Parameter	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
V_{BR}	反向击穿电压 Reverse Voltage	$I_R=100\mu A$	200	---	V
I_R	反向漏电流 Reverse Leakage Current	$V_R=150V$	---	0.1	μA
V_F	正向电压 Forward Voltage	$I_F=100mA$	---	1.0	V
		$I_F=200mA$		1.25	

T_{rr}	反向恢复时间 Reverse Recovery Time	$I_F=30\text{mA}, I_R=30\text{mA}, R_L=100\Omega$ $I_{RR}=3\text{mA}$	---	50	nS
C_T	结电容 Capacitance	$V_R=0\text{V}, f=1\text{MHz}$	---	5	pF

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

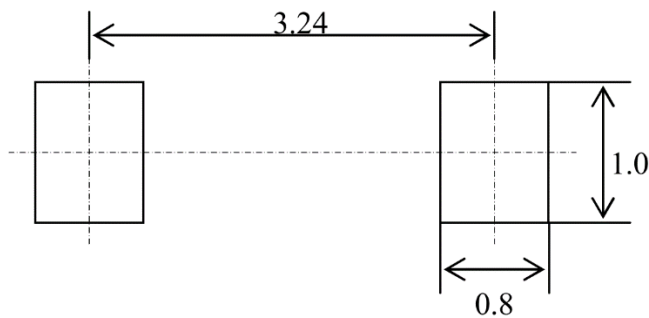


SOD-123 Package Outline Drawing



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:

中心距: 3.24
脚 宽: 0.55
焊盘宽: 1.00
脚 长: 0.50
焊盘长: 0.80

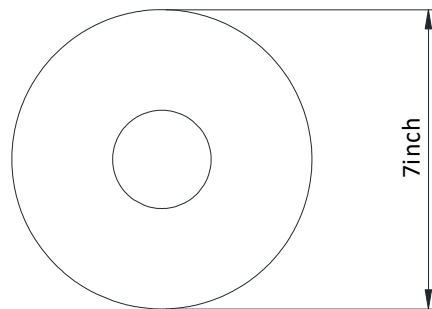
1, 塑封体尺寸: 2.70 X 1.60
2, 未注公差为: ± 0.05
3, 所有单位: mm

Ordering Information

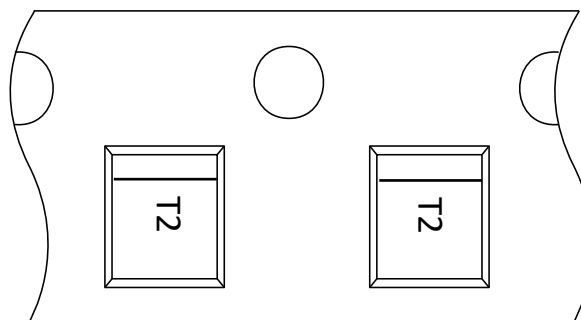
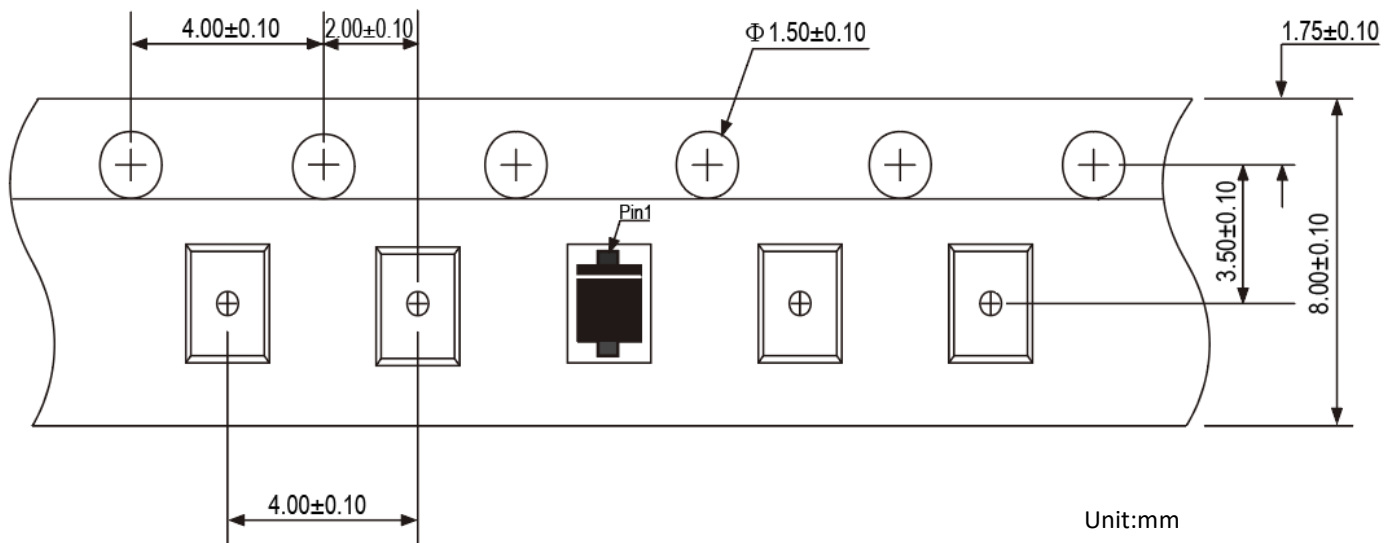
Part Number	Shipping	Reel Size
BAV20W	3000/Tape & Reel	7 inch

TAPE AND REEL INFORMATION

Reel Dimensions



Tape Dimensions



User Direction of Feed

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