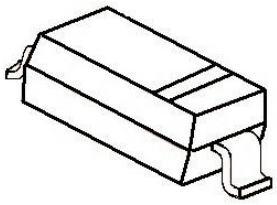
SOD-323 贴片塑封开关二极管

250mW SOD-323 Fast Switching Diode

SOD-323



MARKING:T4

特征 **Features**

- 开关速度小于 6.0nS; Fast Switching Device (Trr <6.0nS)
- 最大功率耗散 250mW; Power Dissipation of 250mW
- 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-323 封 装 SOD-323 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(TA = 25℃ 除非另有规定)
Maximum Ratings & Thermal Characteristics (T_A=25°C unless otherwise specified)

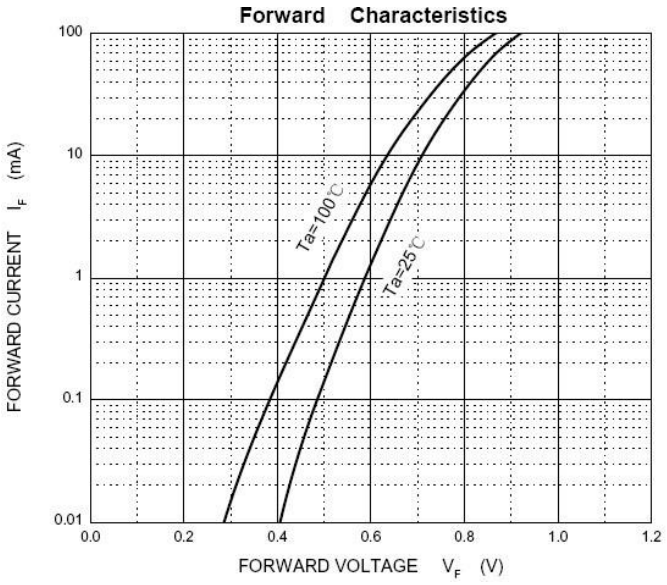
参数 Parameters	符号 Symbol	数值 Value	单位 Unit
反向电压 Reverse Voltage	V_R	75	V
反向峰值电压Peak Repetitive Reverse Voltage	V_{RRM}	85	V
功率消耗 Power Dissipation	Pd	250	mW
工作结温 Operating junction temperature	T_j	150	℃
存储温度 Storage temperature range	Ts	-55-+150	℃
热阻抗Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	500	℃/W
平均整流电流 Average Rectified Current	IO	250	mA
正向(不重复)浪涌电流 Peak Forward Surge Current @tp=1us; T_A=25℃	I_{FSM}	2.0	A

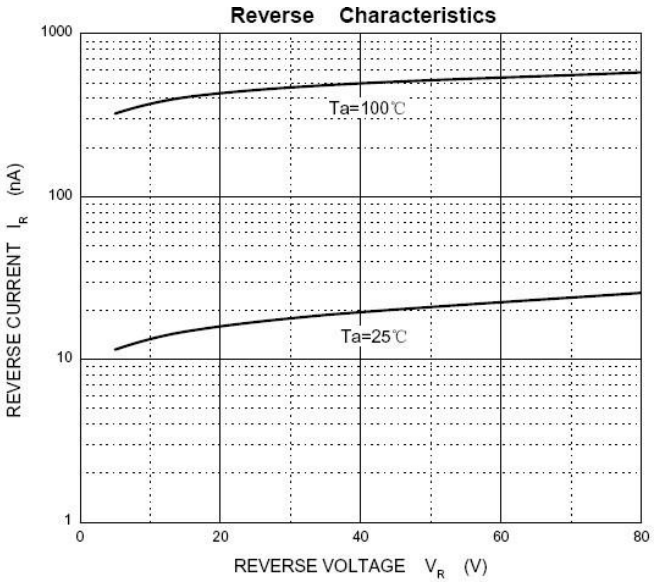
Valid provided that electrodes are kept at ambient temperature.

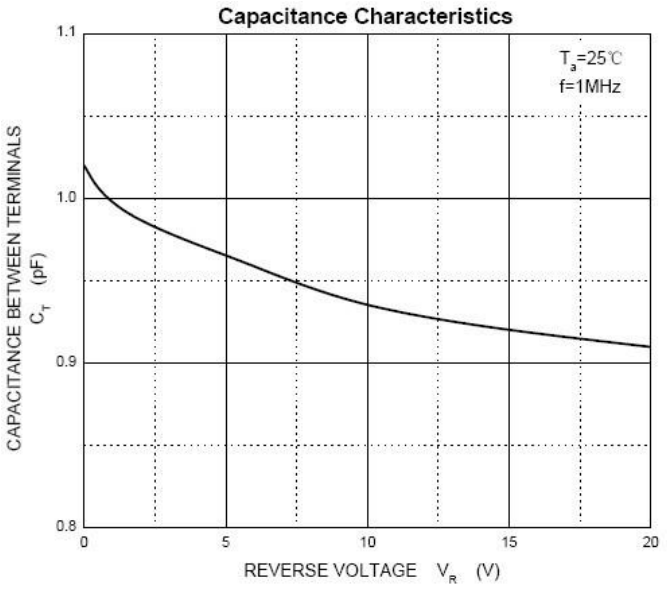
电特性 Electrical Characteristics(T_A=25°C unless otherwise specified)

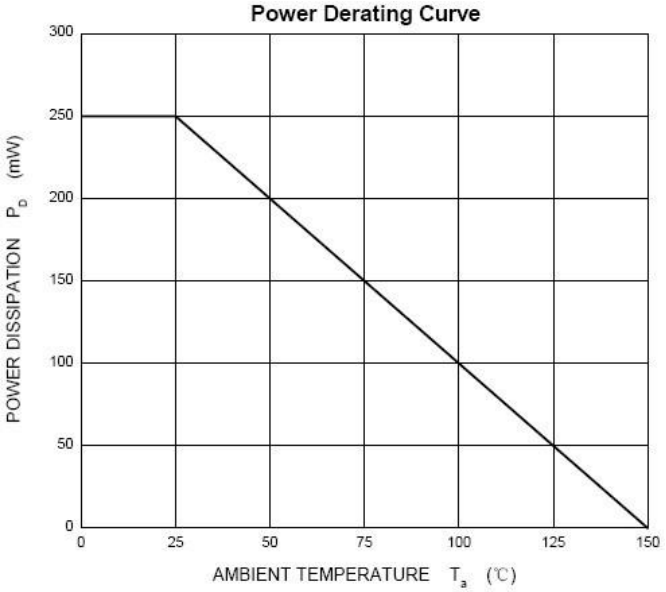
符号 Symbols	参数 Parameter	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
V_{BR}	反向击穿电压 Reverse Voltage	I_R=10uA	75	---	V
I_R	反向漏电电流 Reverse Leakage Current	V_R=25V	---	30	nA
		V_R=75V	---	1	uA
V_F	正向电压 Forward Voltage	I_F=1mA	---	0.715	V
		I_F=10mA	---	0.855	
		I_F=50mA	---	1.00	
		I_F=150mA	---	1.25	
Trr	反向恢复时间 Reverse Recovery Time	I_F= I_R=10mA,RL=100Ω I_{RR}=0.1xI_R	---	6	nS
C_T	结电容 Capacitance	V_R=0V, f=1MHZ	---	2	pF

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

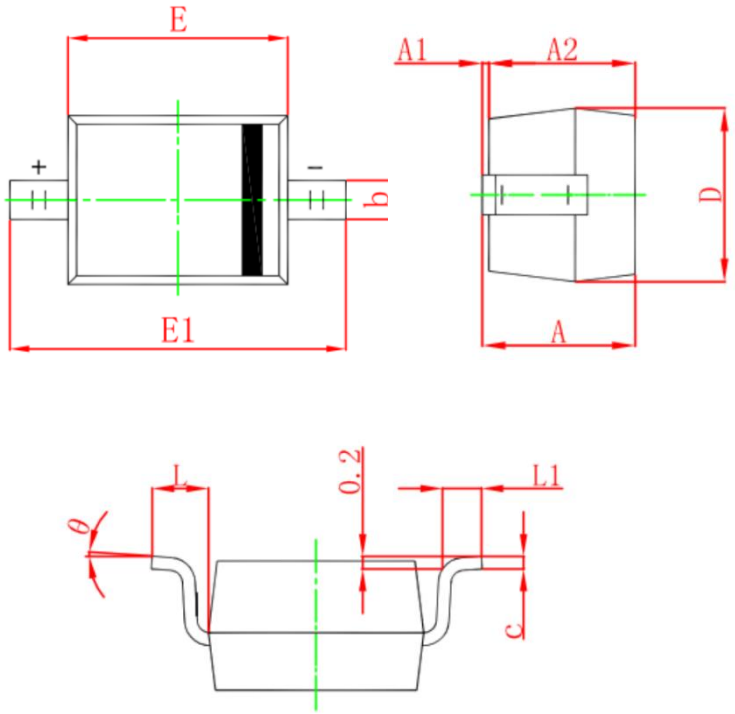






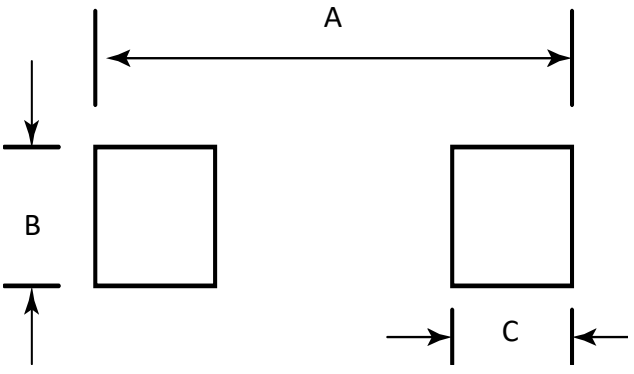


SOD-323 Package Outline Drawing



Symbol	Min.(mm)	Max.(mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	**0°**	**8°**

Suggested Land Pattern



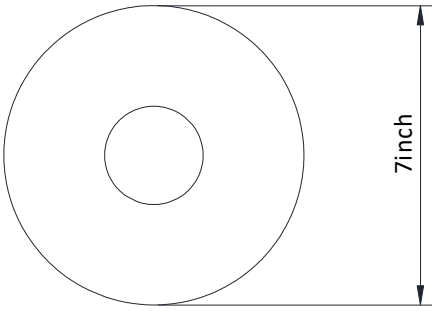
SYM	DIMENSIONS	
	MILLIMETERS	INCHES
A	3.15	0.120
B	0.80	0.031
C	0.80	0.031

Ordering Information

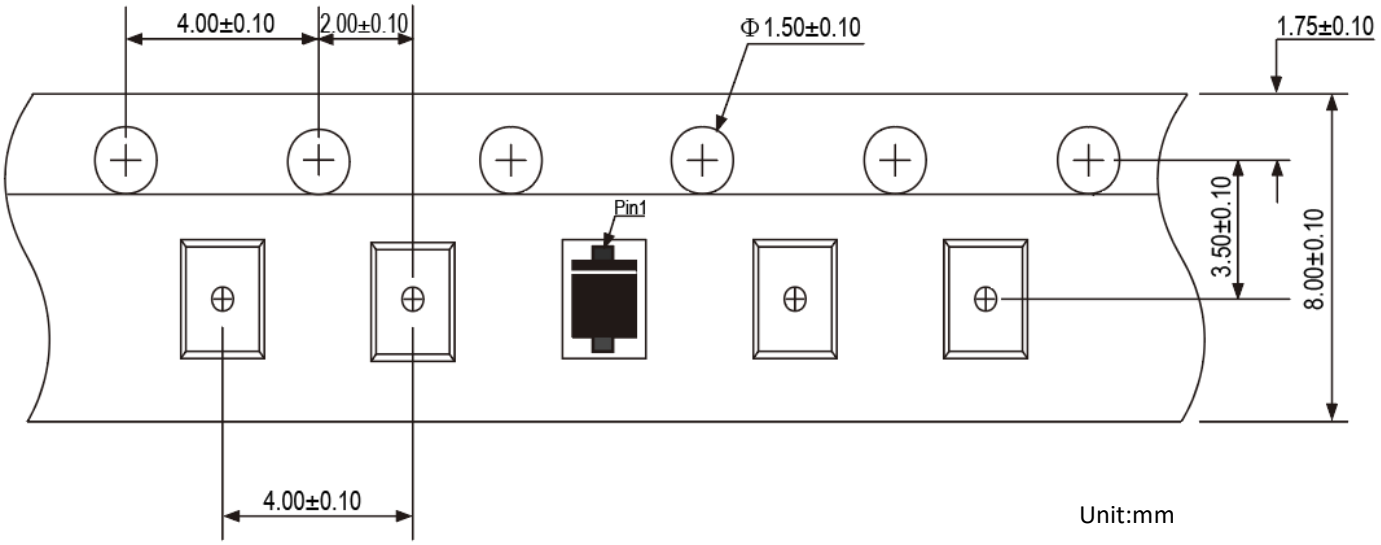
Part Number	Shipping	Reel Size
BAS16WS	3000/Tape &Reel	7 inch

TAPE AND REEL INFORMATION

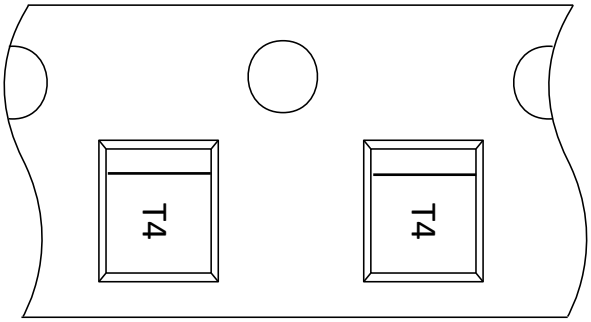
Reel Dimensions



Tape Dimensions



Unit:mm



User Direction of Feed

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