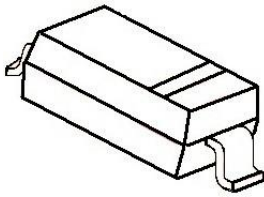


SOD-323 贴片塑封肖特基二极管

SOD-323 Plastic-Encapsulate Schottky Barrier Diode

SOD-323



MARKING:L9

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-323 封装 SOD-323 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)

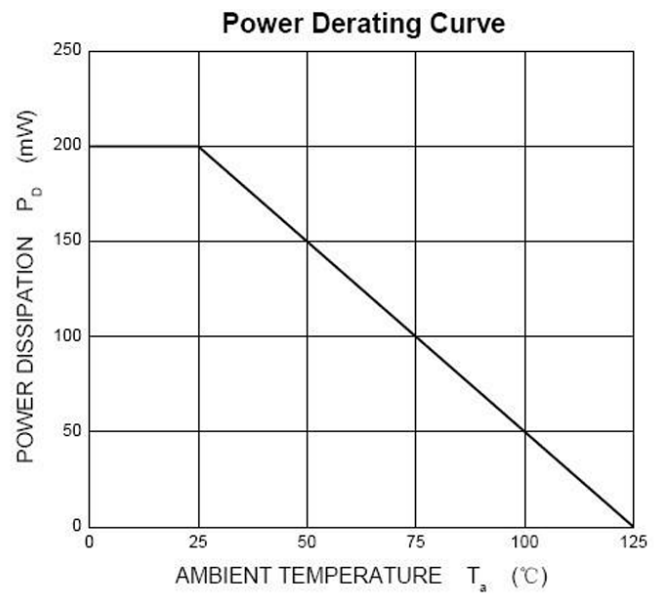
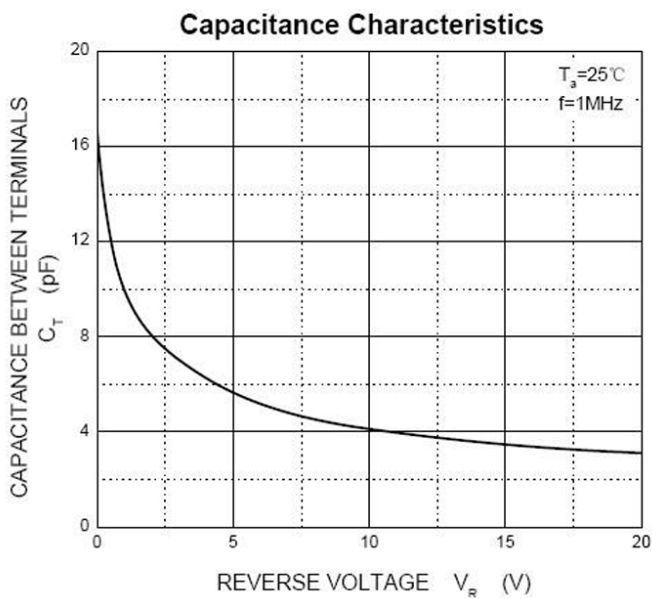
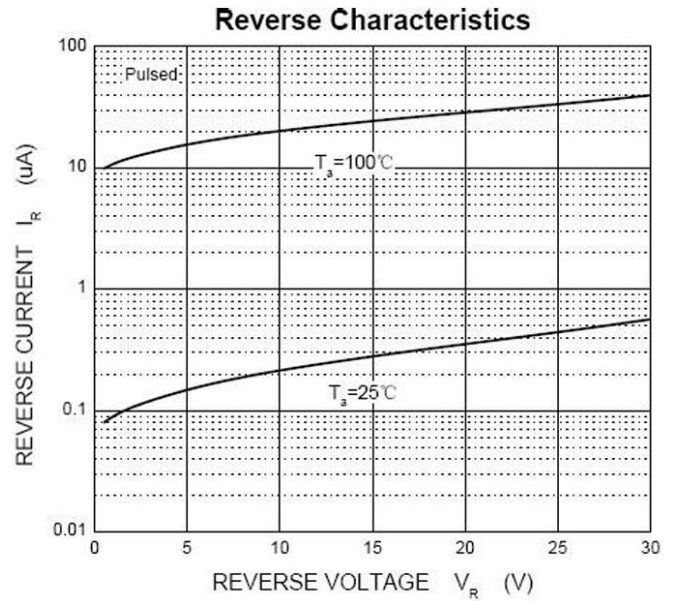
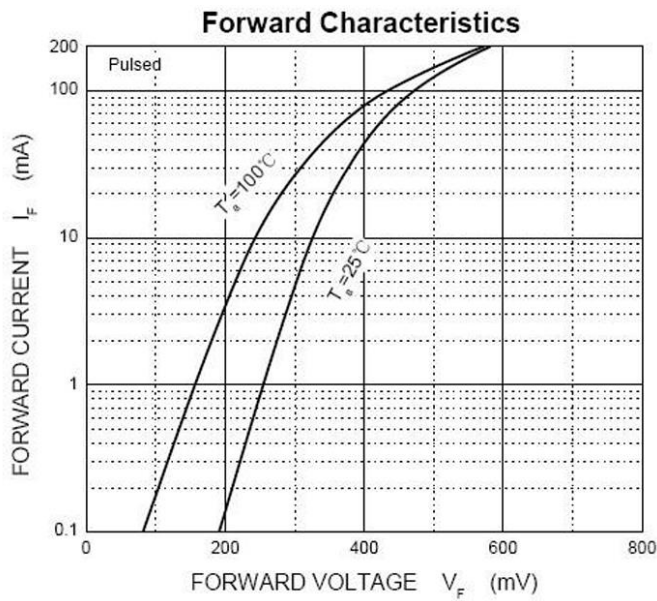
Maximum Ratings & Thermal Characteristics (TA=25℃ unless otherwise specified)

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
平均整流输出电流 Average Rectified Output Current	I _O	100	mA
最大正向平均整流电流 Maximum average forward rectified current	I _{FM}	300	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}	600	mA
典型热阻 Typical thermal resistance	R _{θJA}	500	℃/W
功率消耗 Power Dissipation	PD	200	mW
结温 Junction Temperature	T _j	125	℃
存储温度 Storage temperature range	T _{stg}	-50~+150	℃

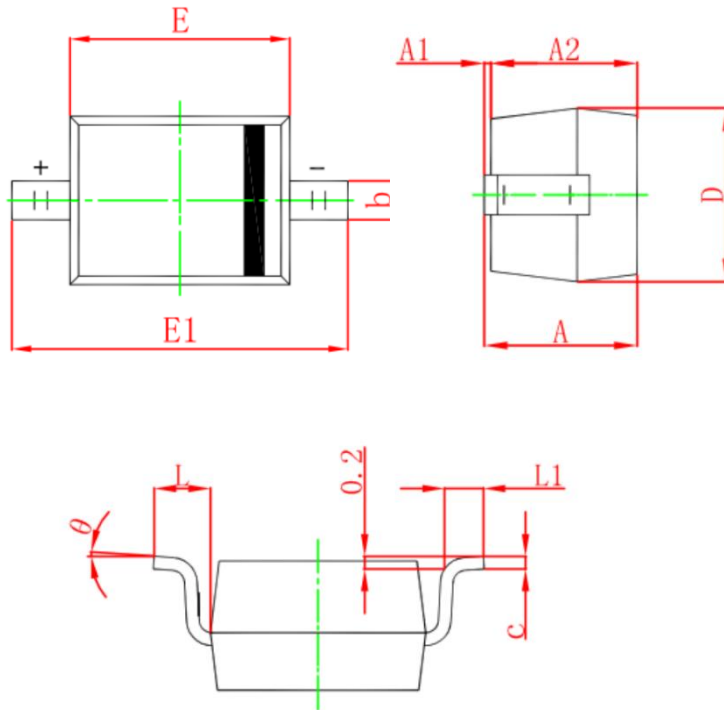
电特性 Electrical Characteristics(TA=25℃ unless otherwise specified)

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 =0.1mA	---	0.24	V
		I _F =1.0mA	---	0.32	V
		I _F =10mA	---	0.40	V
		I _F =30mA	---	0.50	V
		I _F =100mA	---	1.0	V
反向电压 Reverse breakdown voltage	V _R	I _R =100uA	30	---	V
反向电流 Reverse current	I _R	V _R =25V	---	2.0	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	T _{rr}	I _F =10mA, V _R =6V, I _R =10mA	---	6	nS

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

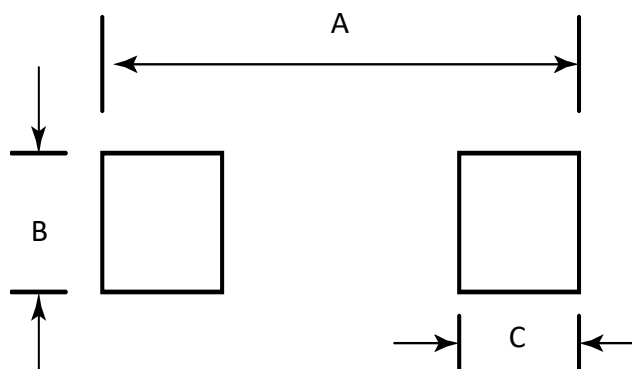


SOD-323 Package Outline Drawing



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°

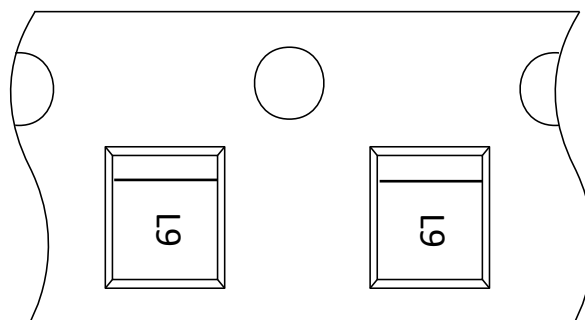
Suggested Land Pattern



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

Part Number	Shipping	Reel Size
BAT54WS	3000/Tape &Reel	7 inch

A diagram of a circular ring. It consists of two concentric circles. A dimension line on the right side of the diagram indicates the outer diameter is 7 inches. The dimension line is a vertical line with arrows at both ends, pointing to the top and bottom of the outer circle. The text "7 inch" is written vertically next to the dimension line.



User Direction of Feed

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