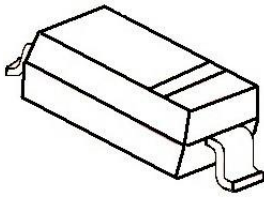


SOD-323 贴片塑封肖特基二极管

SOD-323 Plastic-Encapsulate Schottky Barrier Diode

SOD-323



MARKING:S9

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)

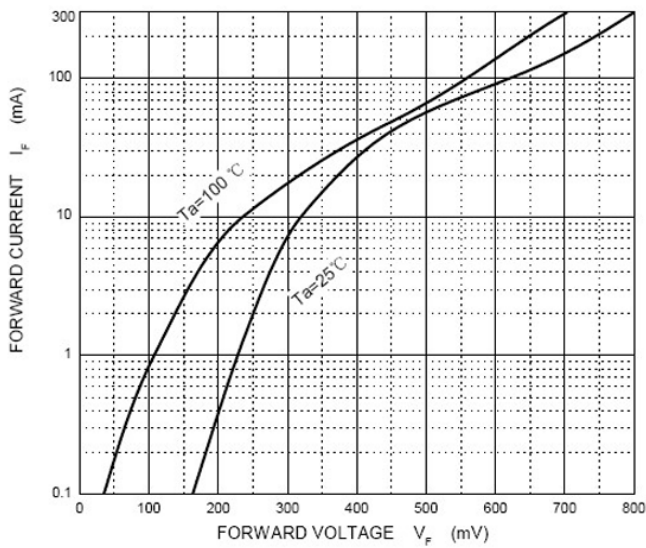
参数 Parameters	符号 Symbol	数值 Value	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	100	V
正向平均整流电流 Forward continuous current	I_F	150	mA
Repetitive peak forward current (Note1)@tp<1.0s,Duty cycle<50%	I_{FRM}	350	mA
峰值正向浪涌电流8.3ms单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	750	mA
典型热阻 Typical thermal resistance	$R_{\theta JA}$	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)

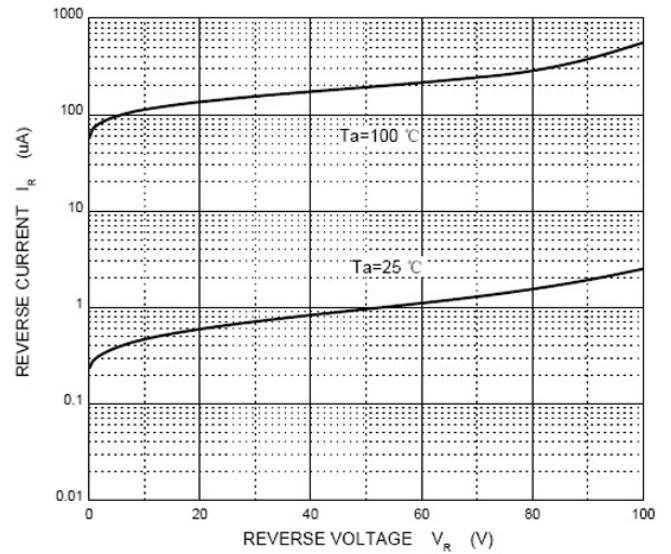
参数 Parameter	符号 Symbols	测试条件 Test Condition	界限 Limits			单位 Unit
			Min	Typ	Max	
正向电压 Forward Voltage	V_F	$I_F=0.1mA$	---	---	0.25	V
		$I_F=10mA$	---	---	0.45	V
		$I_F=250mA$	---	---	1.0	V
反向电压 Reverse breakdown voltage	V_R	$I_R=100\mu A$	100	---	---	V
反向电流Reverse current	I_R	$V_R=1.5V$	---	---	0.3	μA
		$V_R=10V$	---	---	0.5	
		$V_R=50V$	---	---	1.0	
		$V_R=75V$	---	---	2.0	
典型结电容 Type junction capacitance	C_T	$V_R = 0V, f = 1MHz$	---	20	---	pF
		$V_R = 1.0V, f = 1MHz$	---	12	---	

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

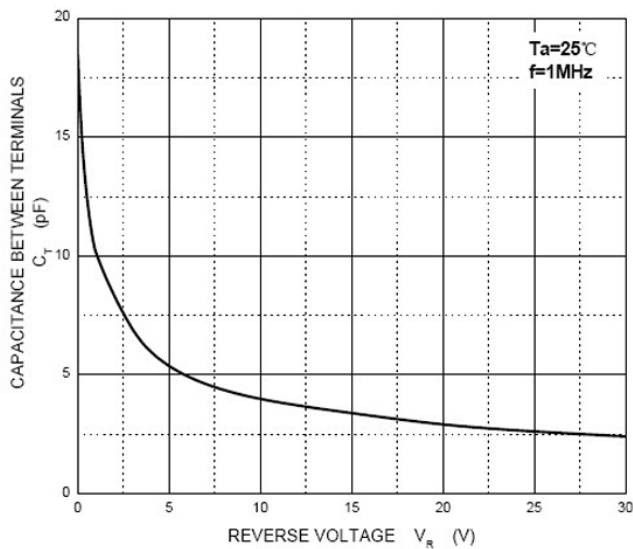
Forward Characteristics



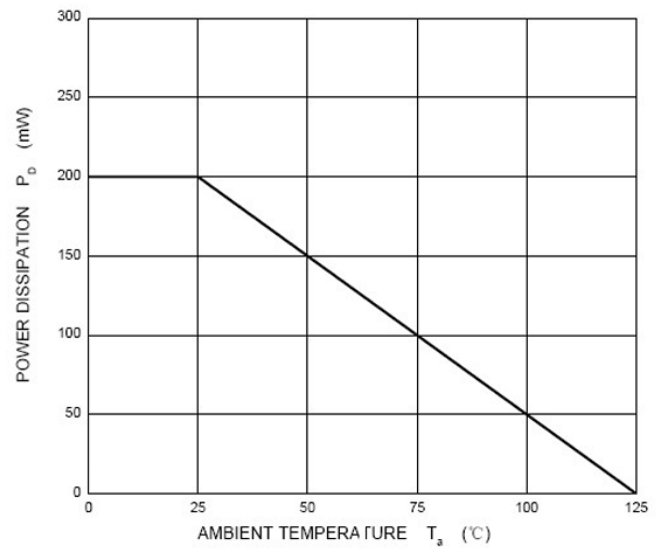
Reverse Characteristics



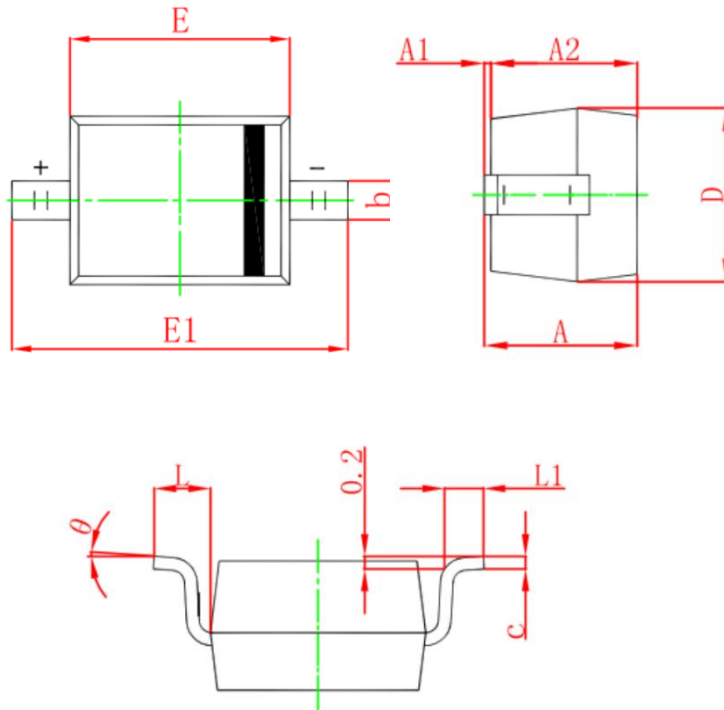
Capacitance Characteristics



Power Derating Curve

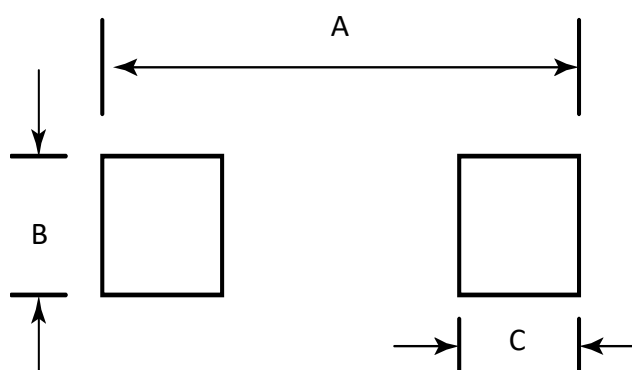


SOD-323 Package Outline Drawing



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



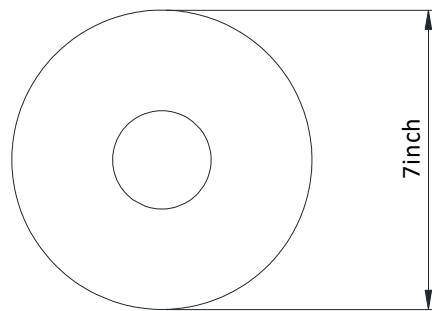
SYM	DIMENSIONS	
	MILLIMETERS	INCHES
A	3.15	0.120
B	0.80	0.031
C	0.80	0.031

Ordering Information

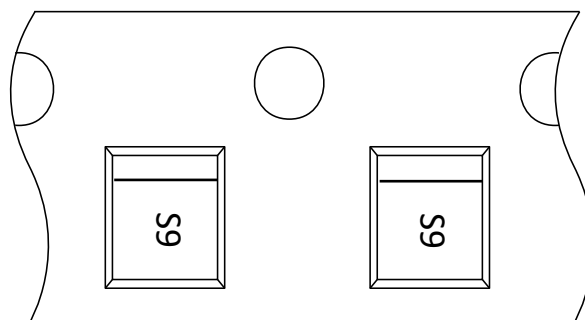
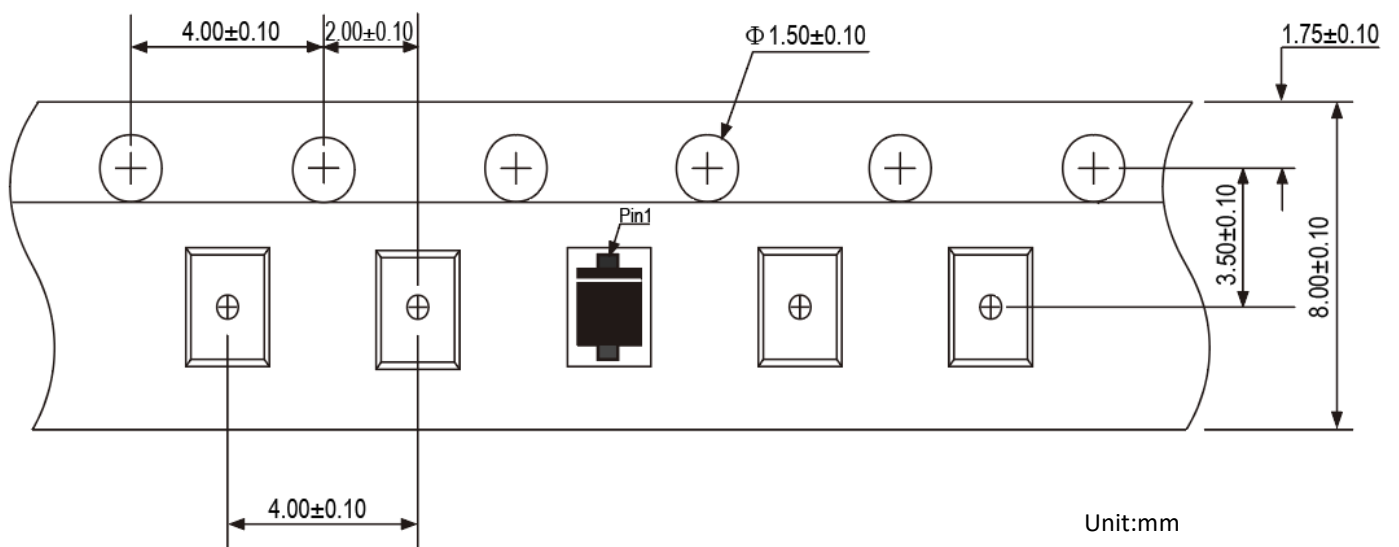
Part Number	Shipping	Reel Size
BAT46WS	3000/Tape & Reel	7 inch

TAPE AND REEL INFORMATION

Reel Dimensions



Tape Dimensions



User Direction of Feed

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