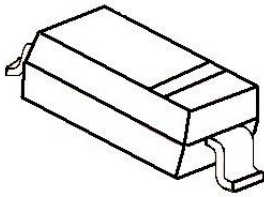


SOD-323 贴片塑封肖特基二极管

SOD-323 Plastic-Encapsulate Schottky Barrier Diode

SOD-323



MARKING:S7

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

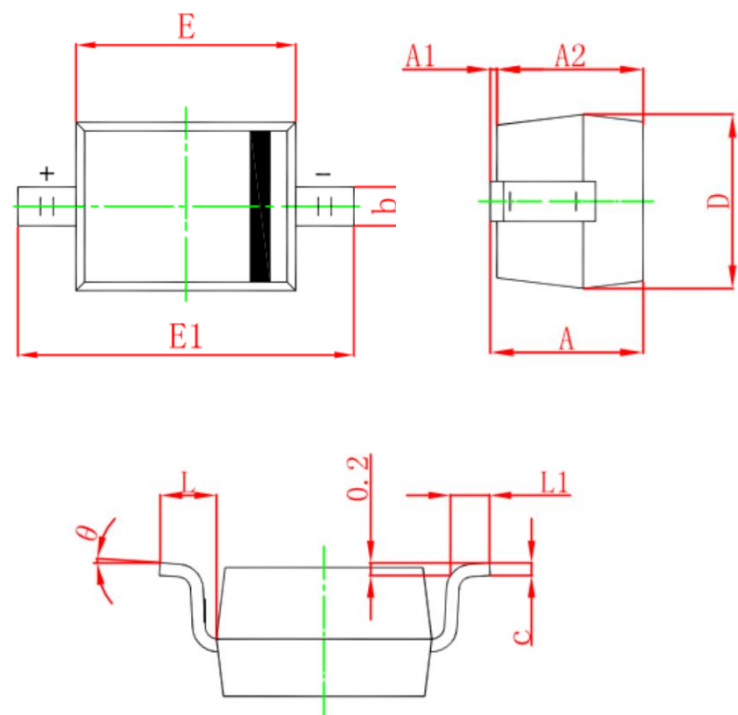
极限值和温度特性($T_A = 25^\circ\text{C}$ 除非另有规定)Maximum Ratings & Thermal Characteristics ($T_A=25^\circ\text{C}$ unless otherwise specified)

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}	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
最大正向平均整流电流 Maximum average forward rectified current	I_{FM}	200	mA
峰值重复正向电流 Repetitive Peak Forward Current @ $t < 1.0\text{s}$	I_{FRM}	500	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}	4.0	A
典型热阻 Typical thermal resistance	$R_{\theta JA}$	500	$^\circ\text{C}/\text{W}$
功率消耗 Power Dissipation	PD	200	mW
结温 Junction Temperature	T_j	125	$^\circ\text{C}$
存储温度 Storage temperature range	T_{stg}	-50-+150	$^\circ\text{C}$

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

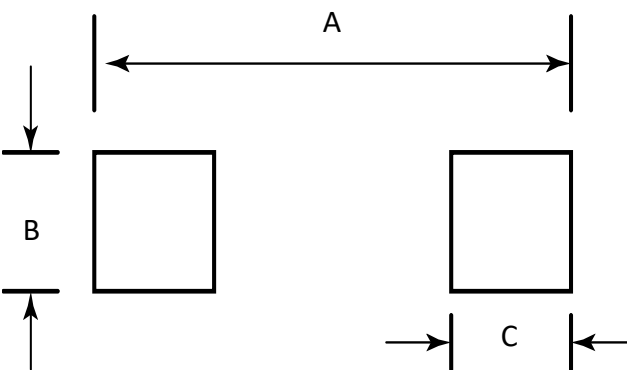
参数 Parameter	符号 Symbols	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
正向电压 Forward Voltage	V_F	$I_F=200\text{mA}$	---	1.0	V
		$I_F=10\text{mA}$	---	0.40	V
		$I_F=50\text{mA}$	---	0.65	V
反向电压 Reverse breakdown voltage	V_R	$I_R=10\mu\text{A}$	30	---	V
反向电流 Reverse current	I_R	$V_R=25\text{V}$	---	0.5	μA
Capacitance between terminals	C_J	$V_R = 1.0\text{V}, f = 1\text{MHz}$	---	10	pF
反向恢复时间 Reverse recovery time	t_{rr}	$I_F=I_R=10\text{mA}$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$		5	nS

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

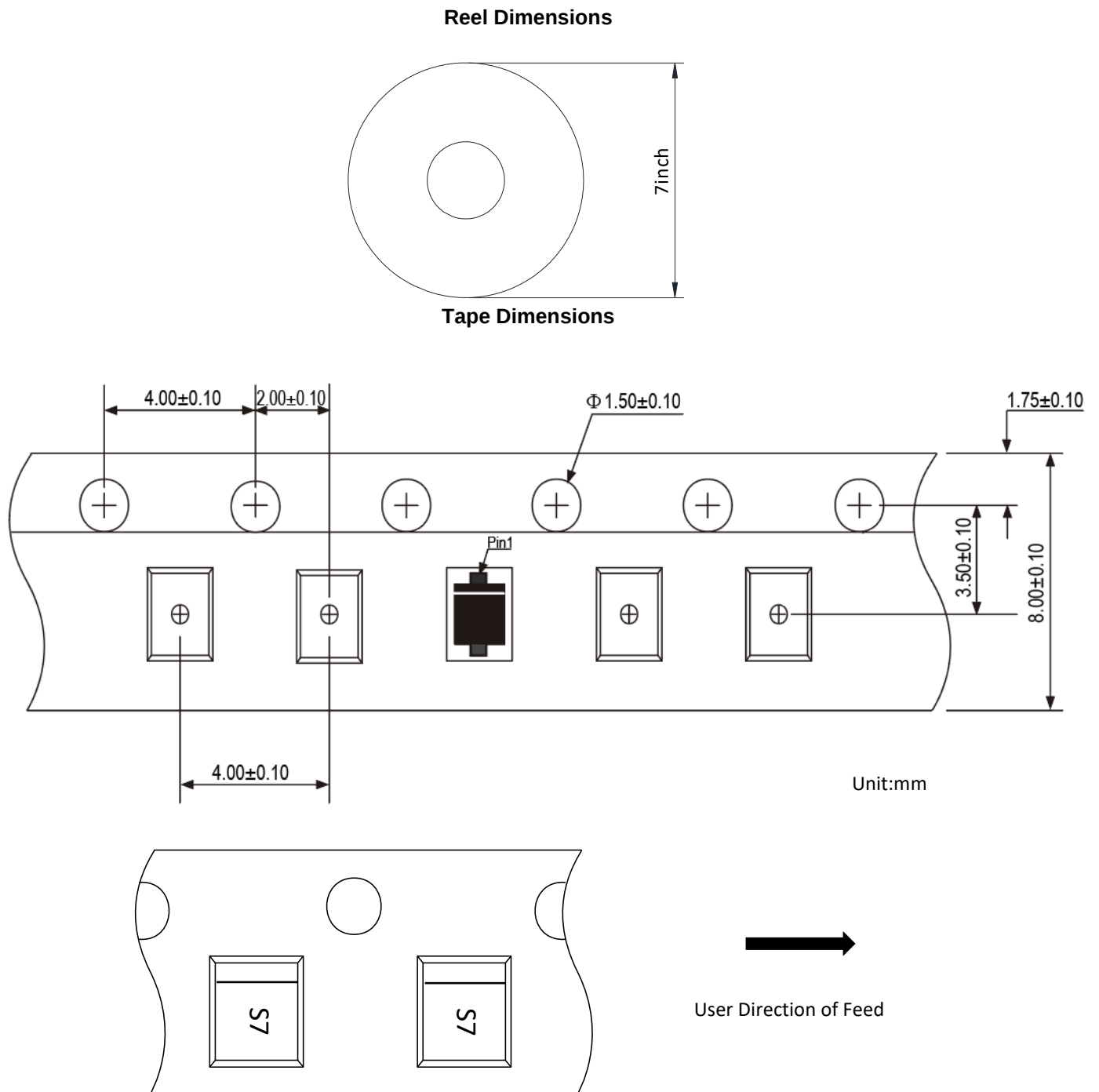


SYM	DIMENSIONS	
	MILLIMETERS	INCHES
A	3.15	0.120
B	0.80	0.031
C	0.80	0.031

Ordering Information

Part Number	Shipping	Reel Size
BAT42WS	3000/Tape &Reel	7 inch

TAPE AND REEL INFORMATION



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