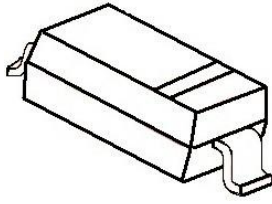


SOD-323 贴片塑封开关二极管 250mW SOD-323 Fast Switching Diode

SOD-323



MARKING:A6

特征 Features

- 开关速度小于4.0ns; Fast Switching Device($T_{rr} < 4.0\text{ns}$)
- 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($T_A = 25^\circ\text{C}$ 除非另有规定)

Maximum Ratings & Thermal Characteristics ($T_A=25^\circ\text{C}$ unless otherwise specified)

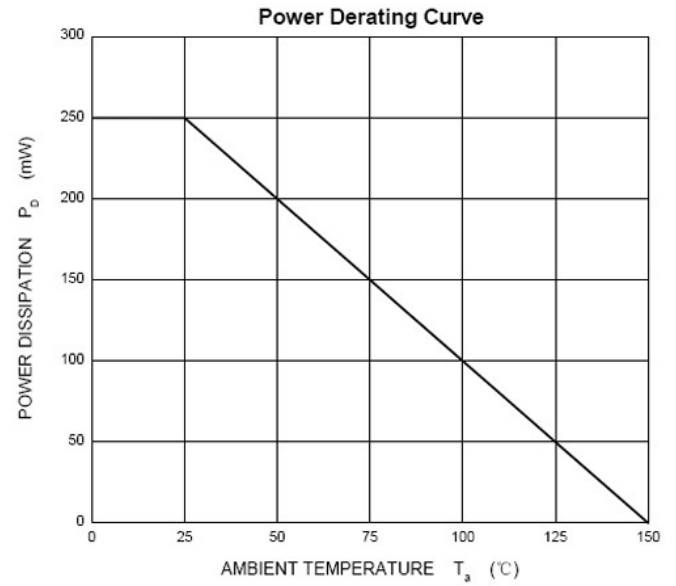
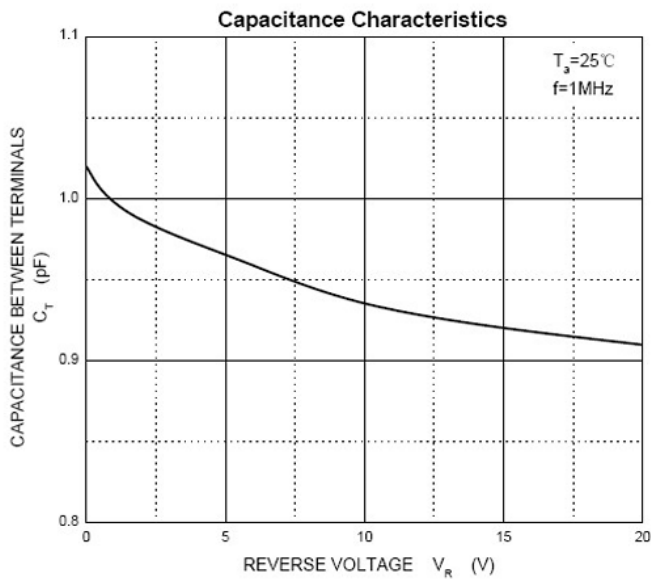
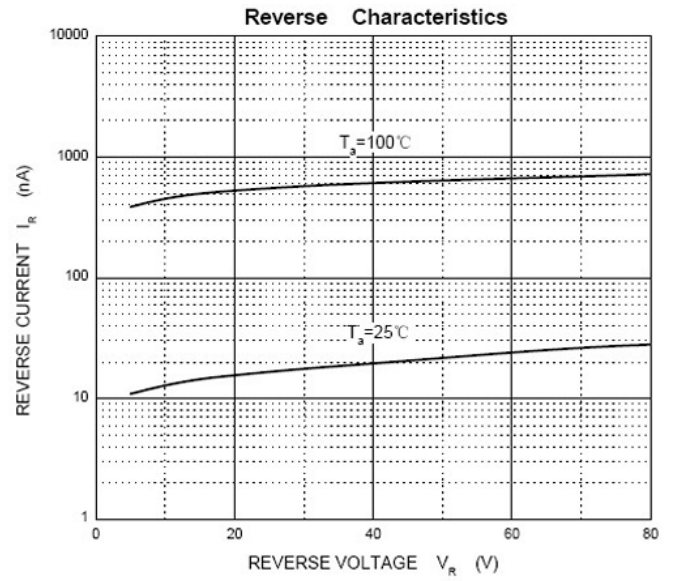
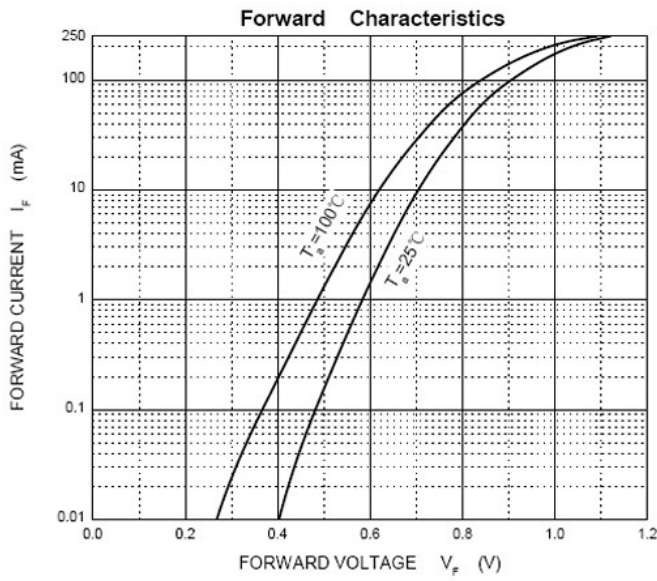
参数 Parameters	符号 Symbol	数值 Value	单位 Unit
反向电压 Reverse Voltage	V_R	100	V
反向峰值电压 Peak Repetitive Reverse Voltage	V_{RRM}	100	V
功率消耗 Power Dissipation	P_d	250	mW
工作结温 Operating junction temperature	T_j	150	$^\circ\text{C}$
存储温度 Storage temperature range	T_s	-55-+150	$^\circ\text{C}$
热阻抗 Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	500	$^\circ\text{C/W}$
平均整流电流 Average Rectified Current	I_O	250	mA
正向(不重复)浪涌电流 Peak Forward Surge Current @ $t_p=1\mu\text{s}$; $T_A=25^\circ\text{C}$	I_{FSM}	2.0	A

Valid provided that electrodes are kept at ambient temperature.

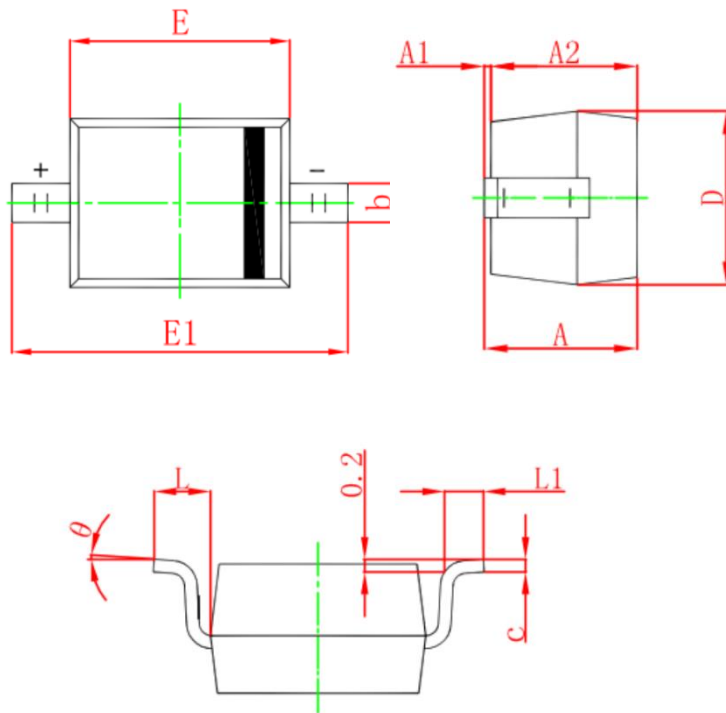
电特性 Electrical Characteristics($T_A=25^\circ\text{C}$ unless otherwise specified)

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	$I_R=100\mu\text{A}$	100	---	V
I_R	反向漏电流 Reverse Leakage Current	$V_R=25\text{V}$	---	30	nA
		$V_R=75\text{V}$	---	1	μA
V_F	正向电压 Forward Voltage	$I_F=1.0\text{mA}$	---	0.715	V
		$I_F=10\text{mA}$	---	0.855	
		$I_F=50\text{mA}$	---	1.0	
		$I_F=150\text{mA}$	---	1.25	
T_{rr}	反向恢复时间 Reverse Recovery Time	$I_F=I_R=10\text{mA}$, $R_L=100\Omega$ $I_{RR}=0.1 \times I_R$	---	4	nS
C_T	结电容 Capacitance	$V_R=0\text{V}$, $f=1\text{MHz}$	---	1.5	pF

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

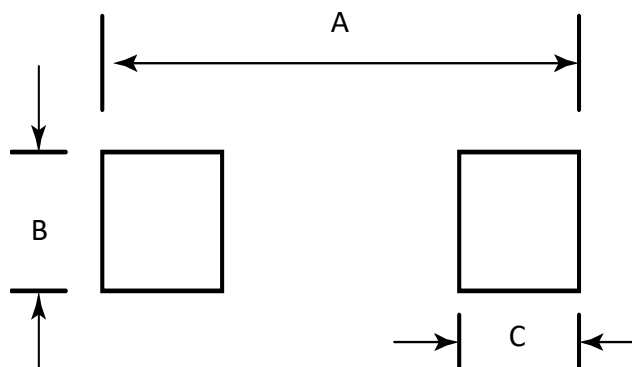


SOD-323 Package Outline Drawing



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



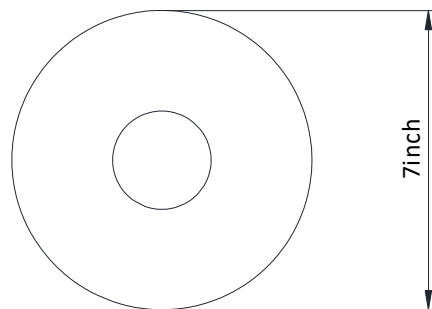
SYM	DIMENSIONS	
	MILLIMETERS	INCHES
A	3.15	0.120
B	0.80	0.031
C	0.80	0.031

Ordering Information

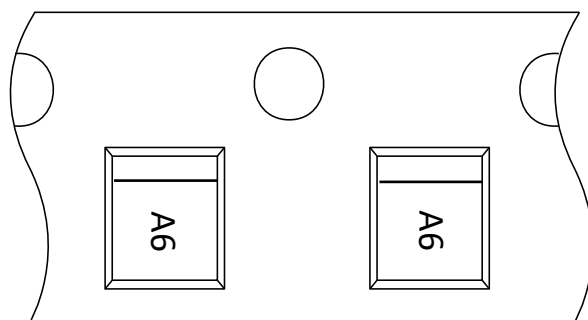
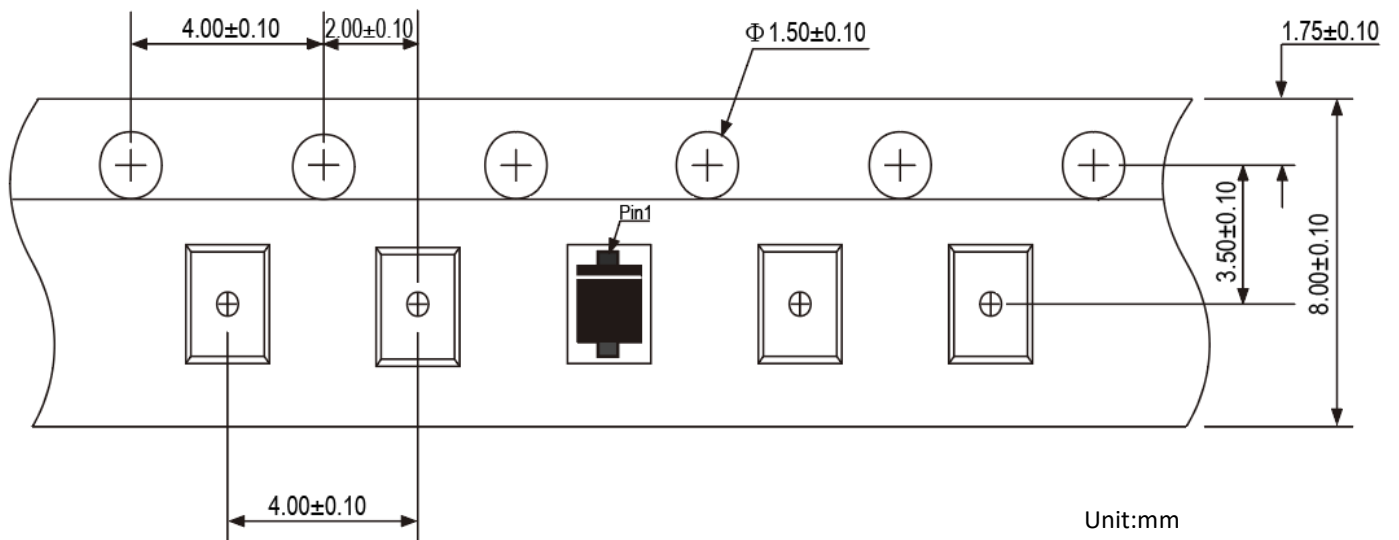
Part Number	Shipping	Reel Size
BAS316	3000/Tape &Reel	7 inch

TAPE AND REEL INFORMATION

Reel Dimensions



Tape Dimensions



User Direction of Feed

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