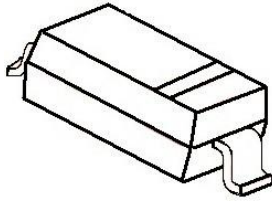


SOD-323 贴片塑封开关二极管

250mW SOD-323 Fast Switching Diode

SOD-323



MARKING:T2

特征 Features

- 开关速度小于50ns; Fast Switching Device($T_{rr} < 50\text{ns}$)
- 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)

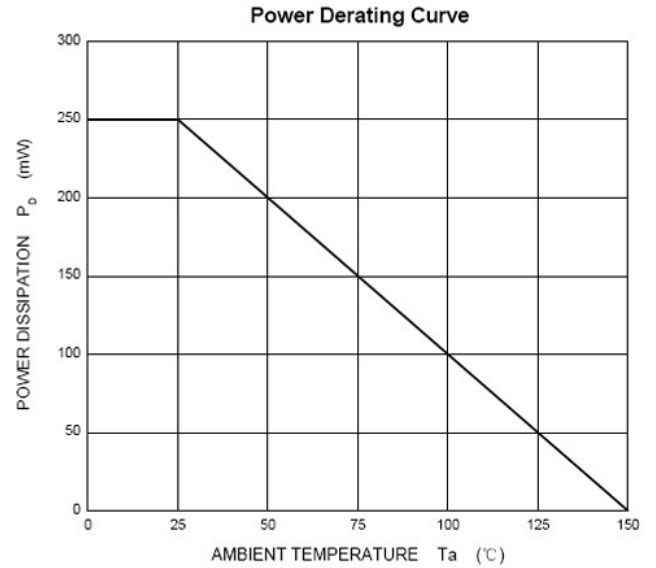
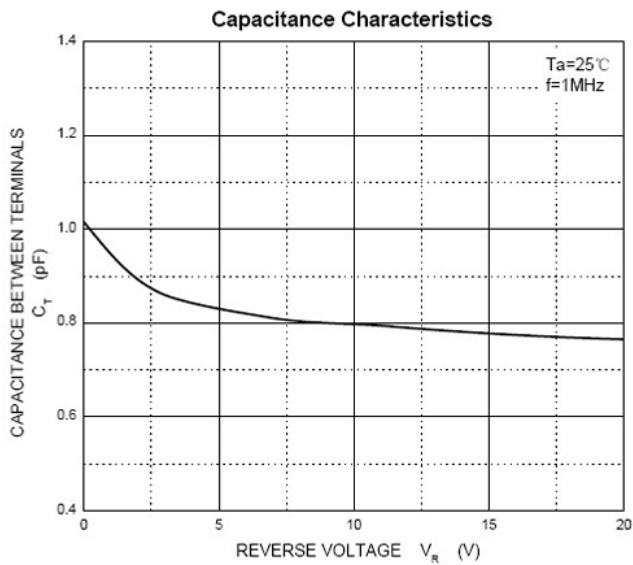
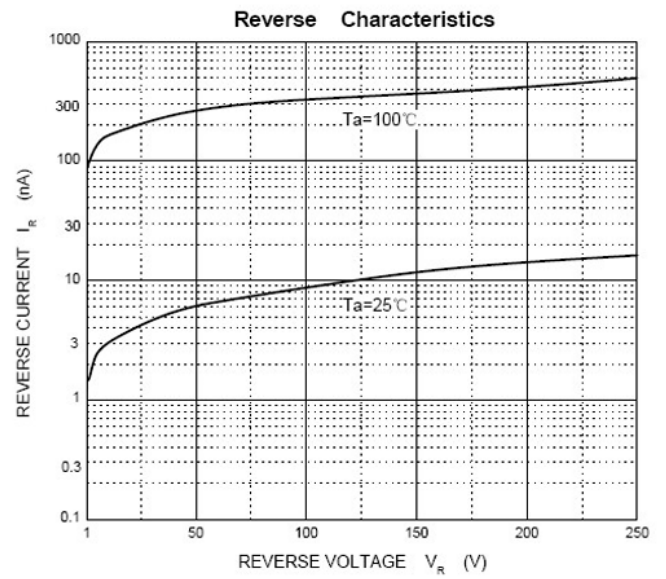
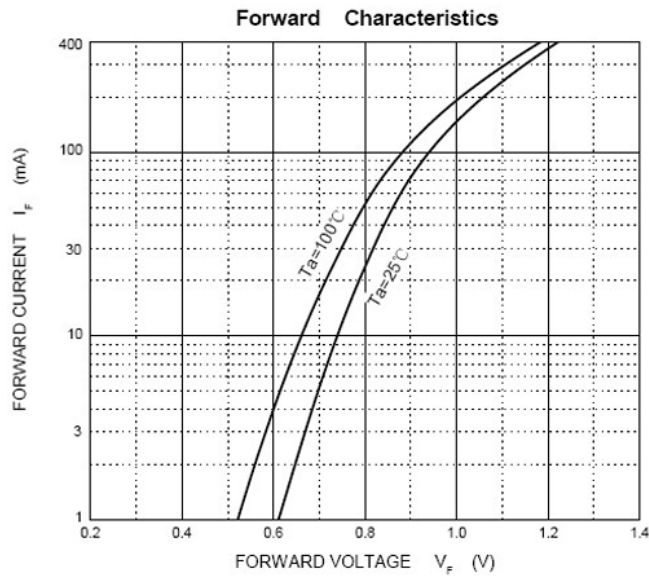
参数 Parameters	符号 Symbol	数值 Value	单位 Unit
反向电压 Reverse Voltage	V_R	150	V
反向峰值电压 Peak Repetitive Reverse Voltage	V_{RRM}	200	V
功率消耗 Power Dissipation	P_d	250	mW
工作结温 Operating junction temperature	T_j	150	$^\circ\text{C}$
存储温度 Storage temperature range	T_s	-55-+150	$^\circ\text{C}$
热阻抗 Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	500	$^\circ\text{C/W}$
平均整流电流 Average Rectified Current	I_O	200	mA
正向(不重复)电流 Non-repetitive Peak Forward Current	I_{FM}	400	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.

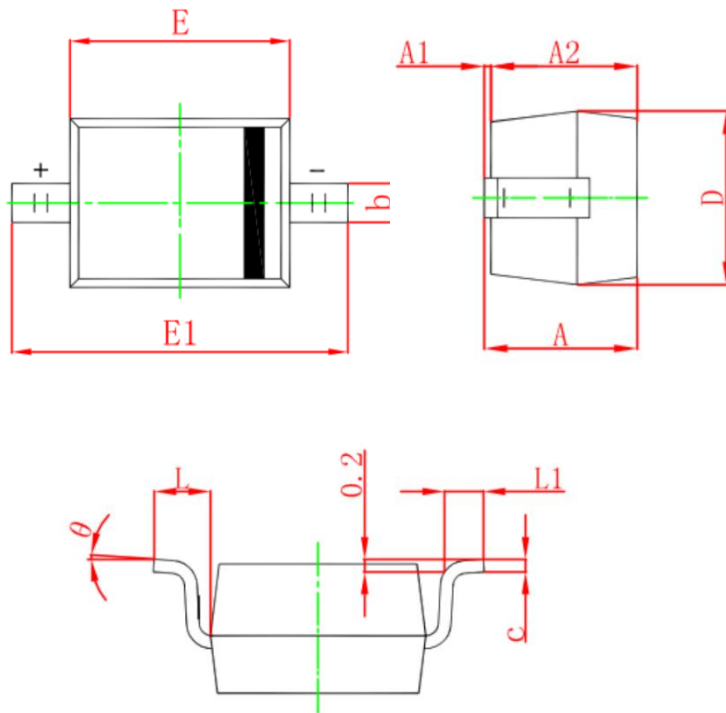
电特性 Electrical Characteristics($T_A=25^\circ\text{C}$ unless otherwise specified)

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	$I_R=100\mu\text{A}$	200	---	V
I_R	反向漏电流 Reverse Leakage Current	$V_R=150\text{V}$	---	0.1	μA
V_F	正向电压 Forward Voltage	$I_F=100\text{mA}$	---	1.0	V
		$I_F=200\text{mA}$	---	1.25	
T_{rr}	反向恢复时间 Reverse Recovery Time	$I_F=I_R=30\text{mA}$, $R_L=100\Omega$ $I_{RR}=3\text{mA}$	---	50	nS
C_T	结电容 Capacitance	$V_R=0\text{V}$, $f=1\text{MHz}$	---	5	pF

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

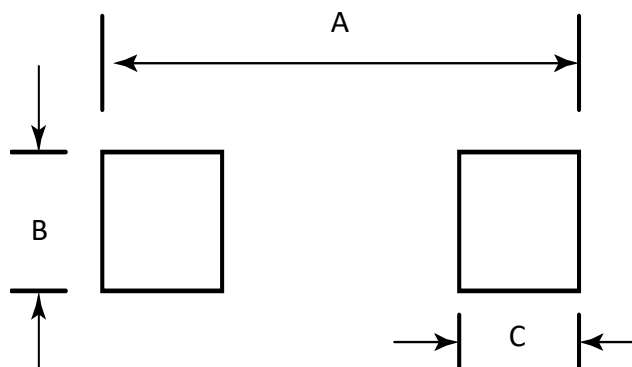


SOD-323 Package Outline Drawing



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



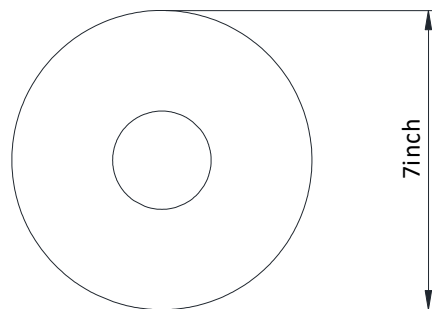
SYM	DIMENSIONS	
	MILLIMETERS	INCHES
A	3.15	0.120
B	0.80	0.031
C	0.80	0.031

Ordering Information

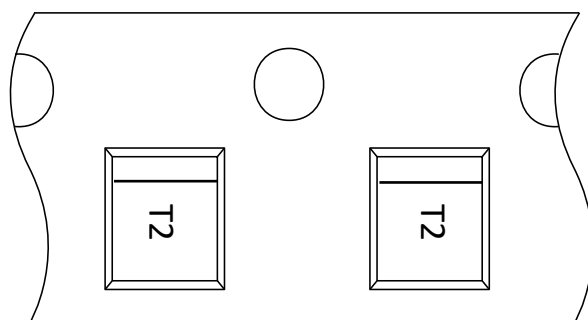
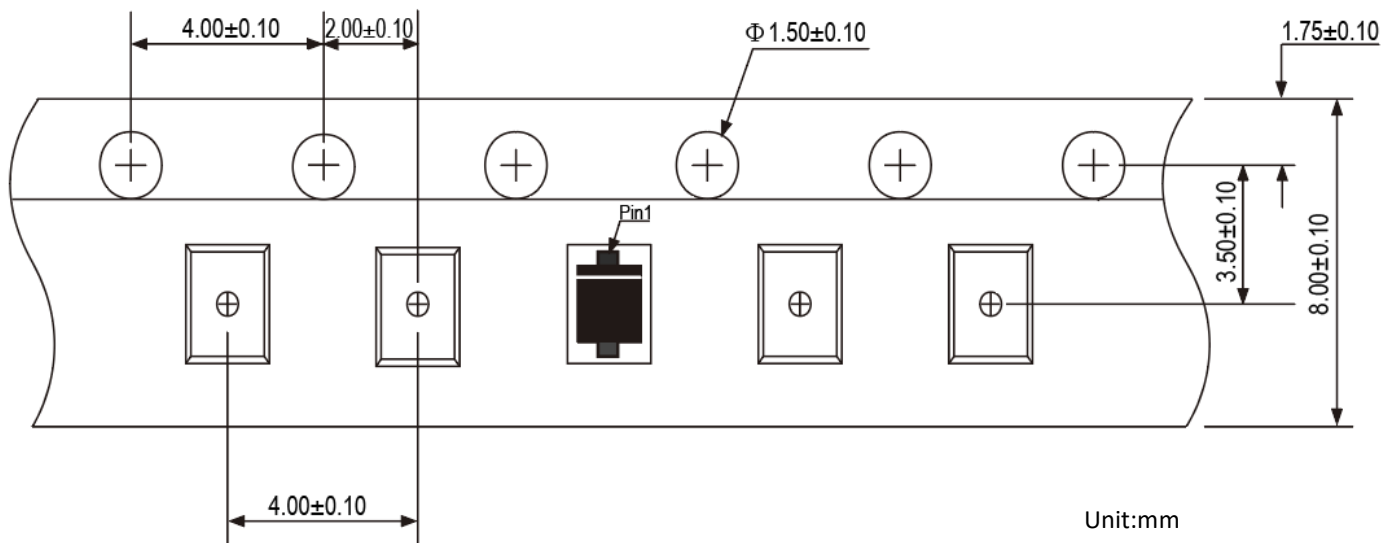
Part Number	Shipping	Reel Size
BAV20WS	3000/Tape & Reel	7 inch

TAPE AND REEL INFORMATION

Reel Dimensions



Tape Dimensions



User Direction of Feed

IMPORTANT NOTICE

The information given in this document is believed to be accurate and reliable but shall in no event be regarded as a guarantee of conditions or characteristics. PN-Silicon assumes no responsibility for any errors in this document, or for the consequences of use of such information nor for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of PN-Silicon.

The product listed in this document are designed to be used with ordinary electronic equipment or devices and are not authorized to used with equipment or devices which require an extremely high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, aerospace machinery, nuclear-reactor controllers, automotive and other safety device.)

The  logo is a registered trademark of PN-Silicon co., ltd which reserves the right to make changes to the product or this document at any time without notice. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. PN-Silicon makes no warranty, representation or guarantee, express or implied, regarding the suitability of its products for any particular purpose. All rights reserved.