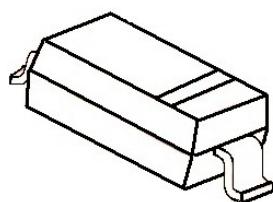


SOD-323



MARKING: T4

**SOD-323 贴片塑封二极管
250mW SOD-323 Fast Switching Diode**
特征 Features

- 开关速度小于 6.0nS; Fast Switching Device (TRR <6.0 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

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

参数 Parameters	符号 Symbol	数值 Value	单位 Unit
反向电压 Reverse Voltage	V_R	75	V
反向峰值电压 Peak Repetitive Reverse Voltage	V_{RRM}	85	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	$^\circ\text{C}/\text{W}$
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 @ $t_p=1\mu\text{s}; TA=25^\circ\text{C}$	I_{FSM}	2.0	A

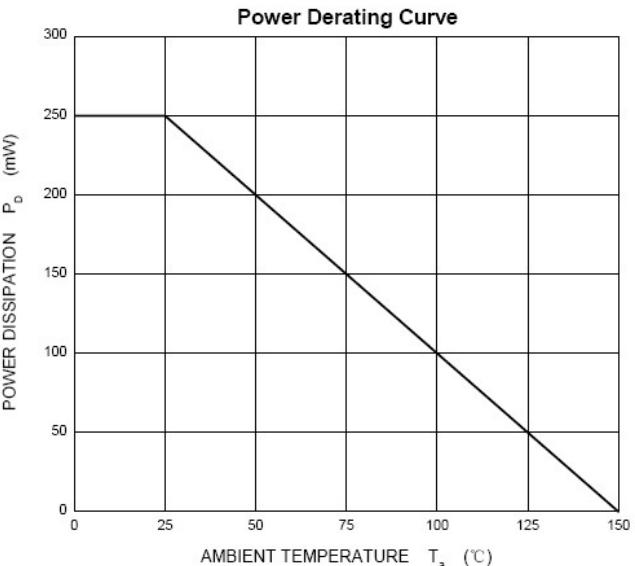
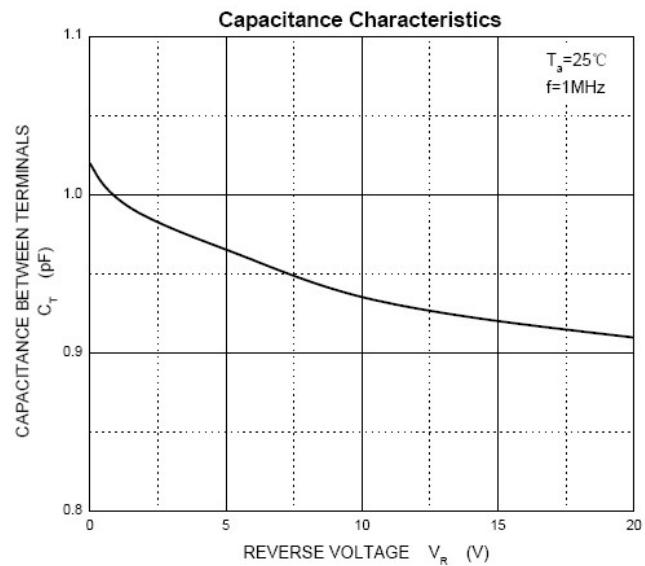
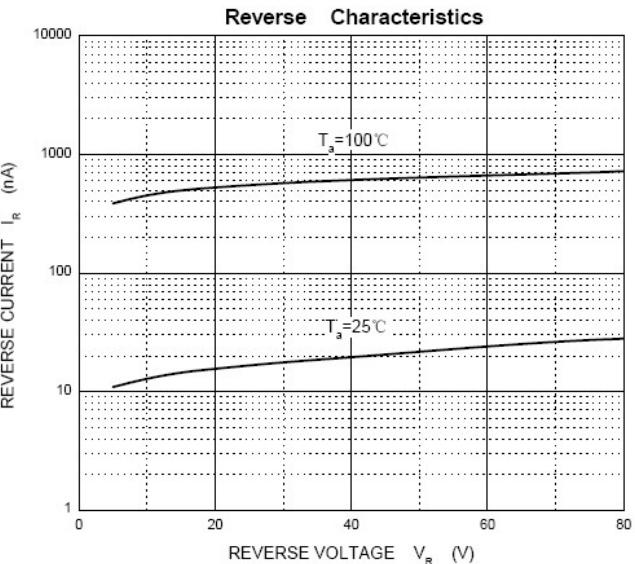
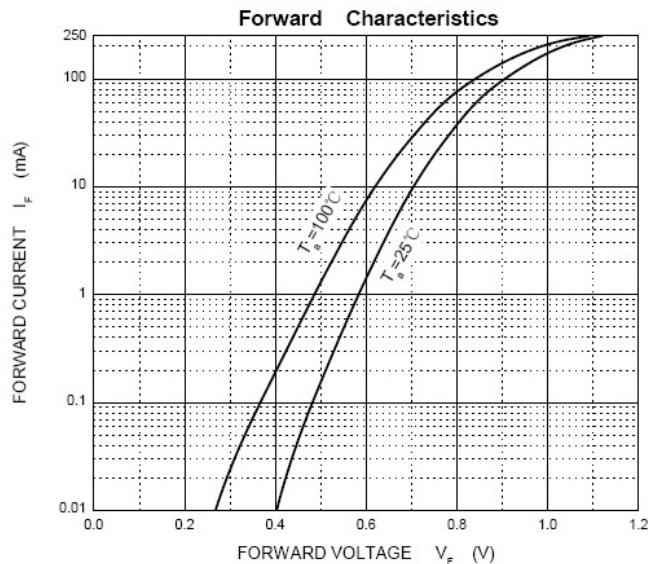
Valid provided that electrodes are kept at ambient temperature.

电特性 Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

符号 Symbols	参数 Parameter	测试条件 Test Condition	界限 Limits		单位 Unit
			Min	Max	
$V(BR)$	反向电压 Reverse Voltage	$IR=10\mu\text{A}$	75		V
I_R	反向漏电流 Reverse Leakage Current	$VR=25\text{V}$	---	30	nA
		$VR=75$	---	1	uA
V_F	正向电压 Forward Voltage	$IF=1.0\text{mA}$	---	0.715	V
		$IF=10\text{mA}$	---	0.855	
		$IF=50\text{mA}$	---	1.00	
		$IF=150\text{mA}$	---	1.25	
TRR	反向恢复时间 Reverse Recovery Time	$IF= IR=10\text{mA}$	---	6	nS
		$RL=100\Omega$			
		$IRR=0.1 \times IR$			
C_T	结电容 Capacitance	$VR=0\text{V}, f=1\text{MHz}$	---	2.0	pF

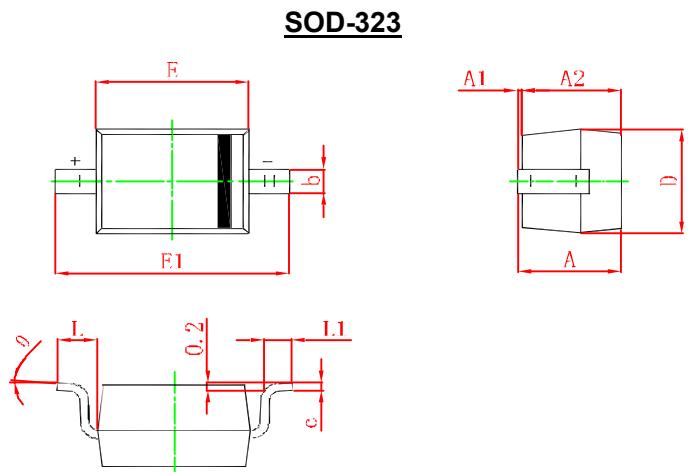
BAS16WS

Typical Characteristics



SOD-323 PACKAGE OUTLINE

Plastic surface mounted package



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°