

SOD-323 ESD 静电保护二极管

■ Features 特点

Bidirectional 双向

ESD Protection 静电保护



■ Applications 应用

Set-top box 机顶盒

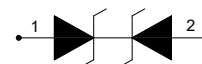
Communications systems 通信系统

Portable electronics 便携式电子产品

Control & monitoring systems 控制与监视系统

Servers, notebooks, and desktop PCs bus protection

服务器、笔记本及台式机总线保护



■ Device Marking 产品打标

V _{RWM} (V)	3.3	5	8	12	15	24	36
Marking	2A	2B	2C	2D	2J/BB	2H	2N

■ Absolute Maximum Ratings 最大额定值

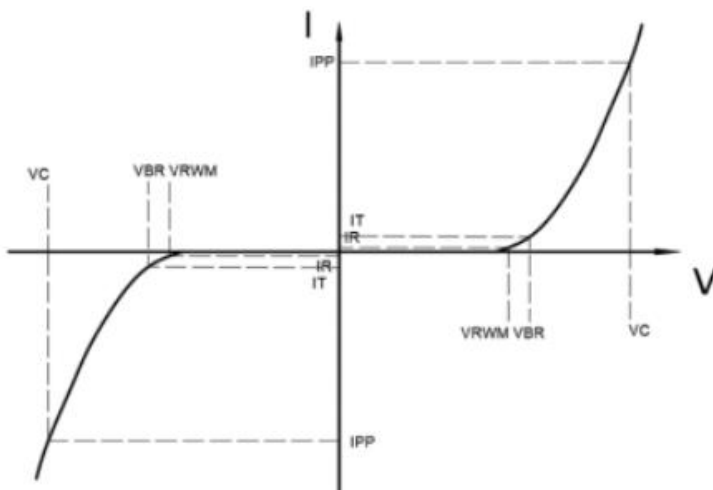
Characteristic 特性参数	Symbol 符号	Rat 额定值	Unit 单位
ESD (IEC61000-4-2 contact discharge) @25°C接触放电	V _{ESD}	±30	KV
ESD (IEC61000-4-2 air discharge) @25°C空气放电	V _{ESD}	±30	KV
Peak Pulse Power @25°C峰值脉冲功率	P _{PK}	350	W
Lead Temperature 管脚温度	T _L	260	°C
Lead Solder Time 管脚焊接时间	T _L	10	S
Operating Temperature 工作温度	T _{op}	-40~85	°C
Junction Temperature 结温	T _J	-55~125	°C
Storage Temperature 储存温度	T _{stg}	-55~150	°C

■ Electrical Characteristics 电特性

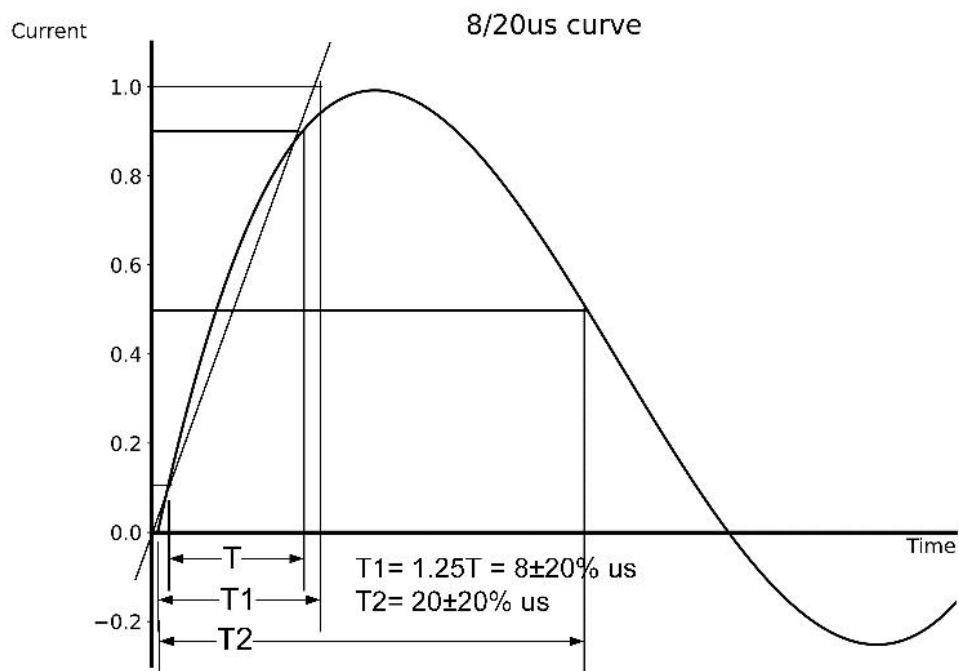
($T_A=25^{\circ}\text{C}$ unless otherwise noted 如无特殊说明, 温度为 25°C)

Part No.型号	$V_{\text{RWM}}(\text{V})$	$V_{\text{R(BR)}}(\text{V})$	$V_{\text{C}}(\text{V})@I_{\text{T}}=1\text{A}$	$I_{\text{PP}}(\text{A})$	$V_{\text{C}}(\text{V})@I_{\text{T}}=I_{\text{PP}}$	$I_{\text{R}}(\mu\text{A})$	$C_{\text{J}}(\text{pF})$
FSNC3D3V1B	3.3	4.5	8.5	24.0	22.0	1.0	150
FSNC3D5V1B	5	6.5	9.5	20.0	22.0	1.0	120
FSNC3D8V1B	8	8.5	11.0	15.0	28.0	1.0	110
FSNC3D12V1B	12	13.3	20.0	12.0	37.0	1.0	70
FSNC3D15V1B	15	16.5	25.0	9.0	55.0	1.0	40
FSNC3D24V1B	24	26.0	40.0	6.0	63.0	1.0	30
FSNC3D36V1B	36	38.0	55.0	4.0	72.0	1.0	25

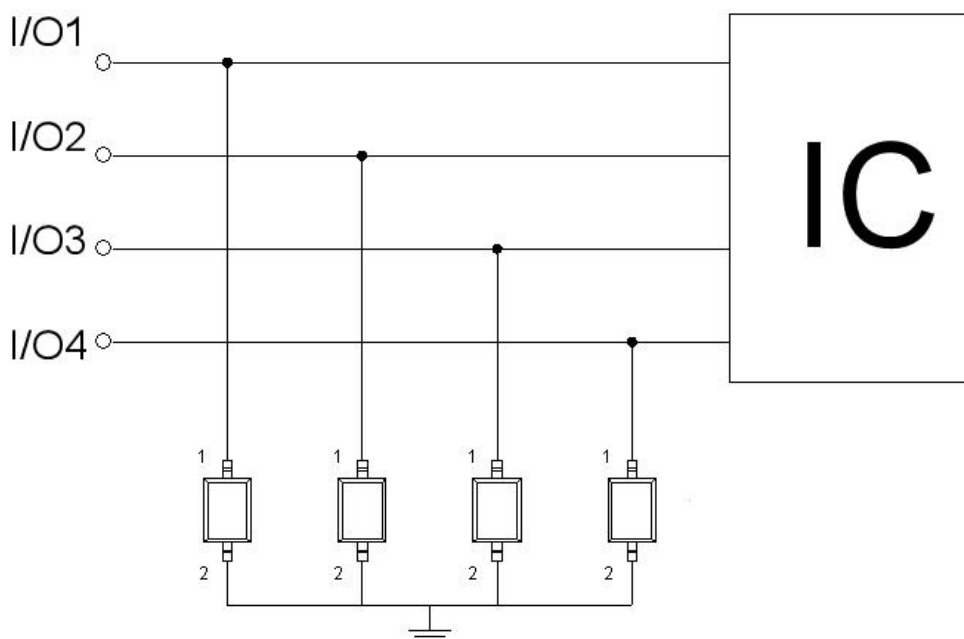
V_{RWM}	Reverse Working Voltage 反向工作电压
$V_{\text{R(BR)}}$	Reverse Breakdown Voltage 反向击穿电压@ $I_{\text{T}}=1\text{mA}$
I_{T}	Test Current 测试电流
I_{R}	Reverse Leakage Current 反向漏电流@ V_{RWM}
V_{C}	Clamping Voltage 钳位电压
I_{PP}	Reverse Peak Pulse Current 浪涌电流
C_{J}	Junction Capacitance 结电容 $V_{\text{IO}}=0\text{V}$, $V_{\text{P-P}}=30\text{mV}$, $f=1\text{MHz}$



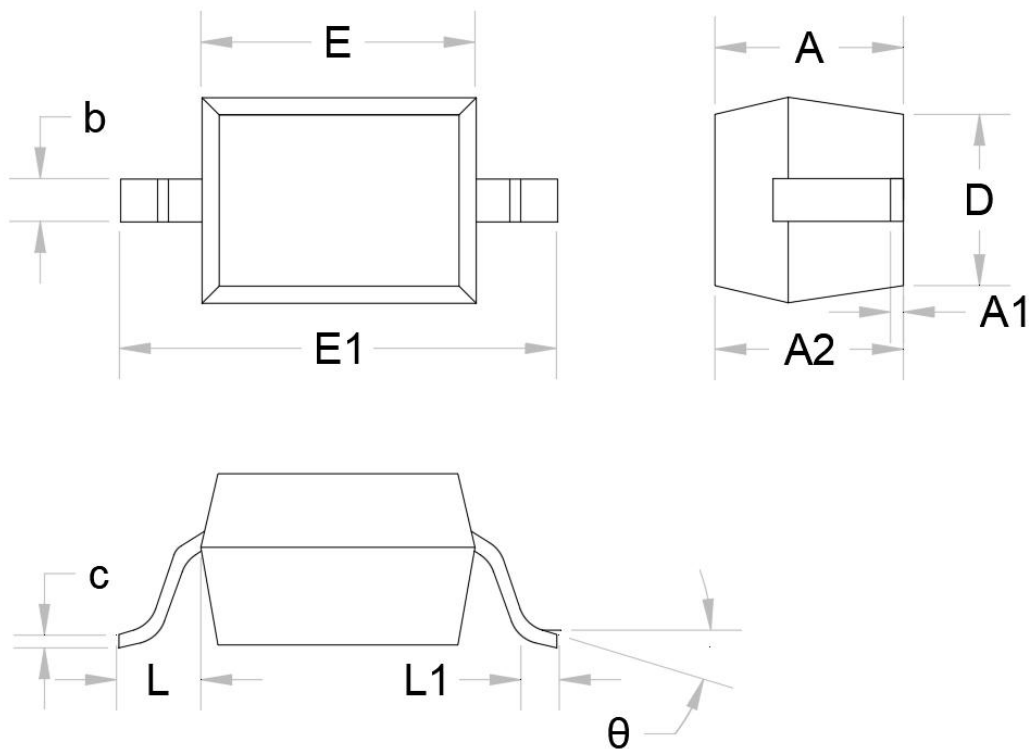
■ Typical Characteristic Curve 典型特性曲线



■ Typical Application 典型应用



■ Dimension 外形封装尺寸



Symbol	Dimensions in Millimeters		Dimensions in Inches	
	Min.	Max.	Min.	Max.
A		1.000		0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
C	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.550	2.750	0.100	0.108
L	0.475REF		0.019REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°