FSNC3D**1BA

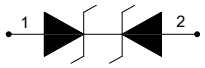
SOD-323 ESD 静电保护二极管

■Features 特点

Bidirectional 双向
ESD Protection 静电保护

■Applications 应用

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
Cellular handsets and accessories 蜂窝手机及附件
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	-
Marking	||||AB	||||AC	2C	||||AD	||||AE	||||AF	-

■Absolute Maximum Ratings 最大额定值

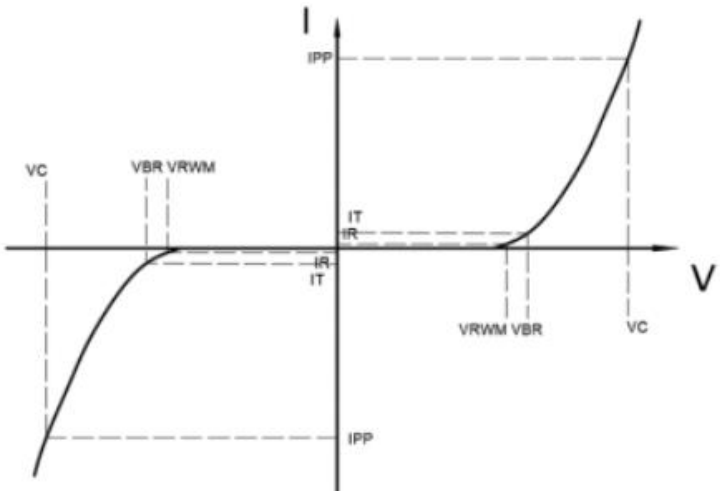
Characteristic 特性参数	Symbol 符号	Rat 额定值	Unit 单位
ESD (IEC61000-4-2 contact discharge) @25℃接触放电	V_{ESD}	±30	KV
ESD (IEC61000-4-2 air discharge) @25℃空气放电	V_{ESD}	±30	KV
Peak Pulse Power @25℃峰值脉冲功率	P_{PK}	350	W
Lead Temperature 管脚温度	T_L	260	℃
Lead Solder Time 管脚焊接时间	T_L	10	S
Operating Temperature 工作温度	T_{op}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

■Electrical Characteristics 电特性

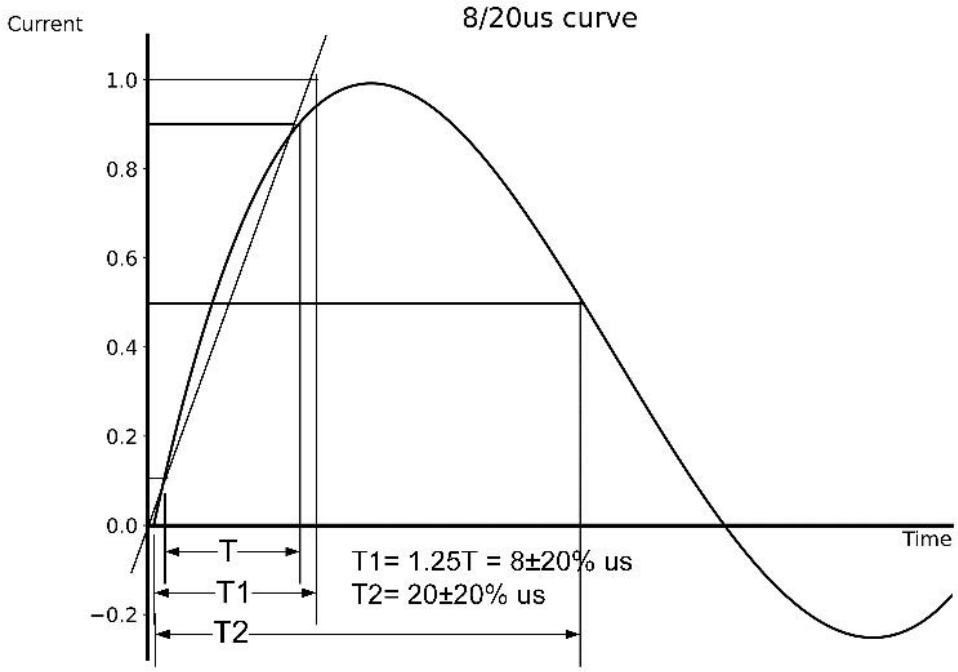
(T_A=25℃ unless otherwise noted 如无特殊说明，温度为 25℃)

Part No.型号	V_{RWM}(V)	$V_{R(BR)}$(V)	V_C(V)@I_T=1A	I_{PP}(A)	V_C(V)@I_T=I_{PP}	I_R(uA)	C_J(pF)
FSNC3D3V1BA	3.3	4.5	8.5	16.0	18.0	1.0	100
FSNC3D5V1BA	5.0	6.5	9.5	15.0	20.0	1.0	90
FSNC3D8V1BA	8.0	8.5	11.0	12.0	22.0	1.0	70
FSNC3D12V1BA	12.0	13.3	20.0	8.0	35.0	1.0	50
FSNC3D15V1BA	15.0	16.5	25.0	6.0	45.0	1.0	30
FSNC3D24V1BA	24.0	26.0	40.0	4.0	55.0	1.0	20

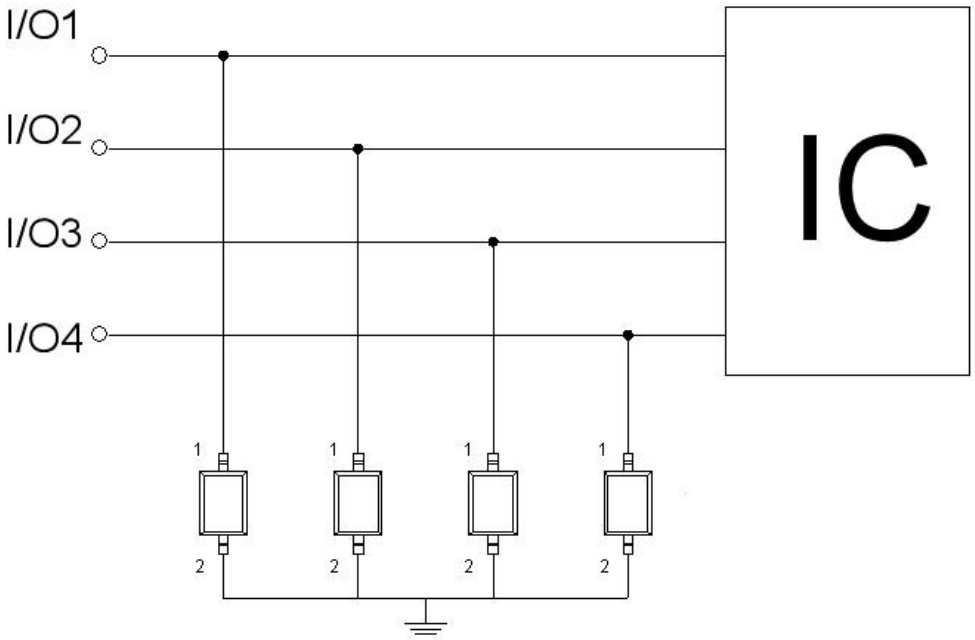
V_{RWM}	Reverse Working Voltage 反向工作电压
$V_{R(BR)}$	Reverse Breakdown Voltage 反向击穿电压@I_T=1mA
I_T	Test Current 测试电流
I_R	Reverse Leakage Current 反向漏电流@V_{RWM}
V_C	Clamping Voltage 钳位电压
I_{PP}	Reverse Peak Pulse Current 浪涌电流
C_J	Junction Capacitance 结电容 V_{IO}=0V, V_{P-P} = 30mV, f = 1MHz



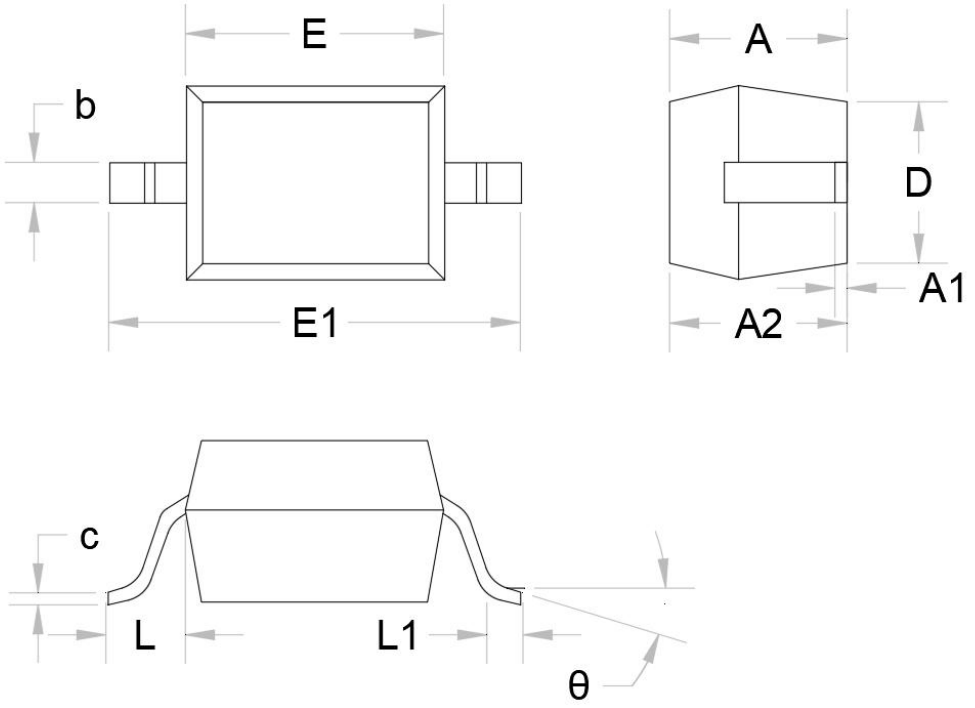
■Typical Characteristic Curve 典型特性曲线



■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°