

## SOD-323 ESD 静电保护二极管

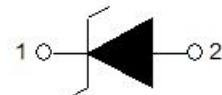
### ■Features 特点

Un-directional 单向  
ESD Protection 静电保护



### ■Applications 应用

MP3 Players 播放器  
Battery Protection 电池保护  
Power Line Protection 电源线保护  
Vbat pin for Mobile Device 手机电池附件  
Hand Held portable Applications 手持便携应用



### ■Device Marking 产品打标

FSNC3D5VUA=05W

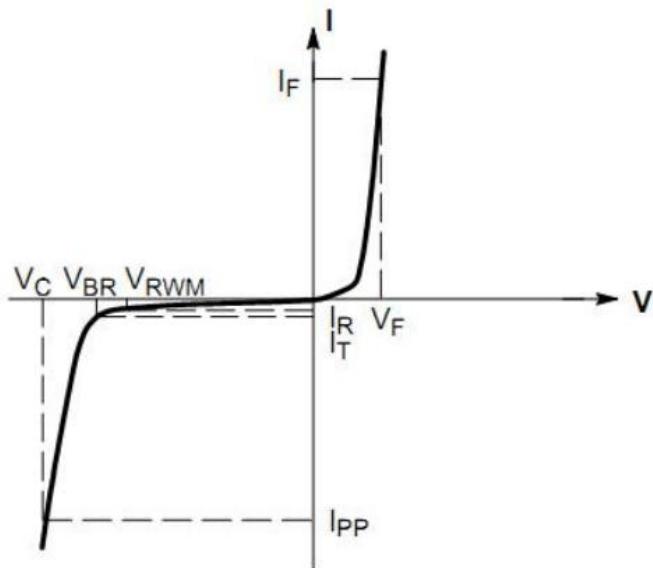
### ■Absolute Maximum Ratings 最大额定值

Characteristic 特性参数	Symbol 符号	Rating 额定值	Unit 单位
ESD (IEC61000-4-2 contact discharge) @25°C接触放电	V <sub>ESD</sub>	±30	KV
ESD (IEC61000-4-2 air discharge) @25°C空气放电	V <sub>ESD</sub>	±30	KV
Peak Pulse Power @25°C峰值脉冲功率	P <sub>PK</sub>	450	W
Peak Pulse Current @25°C峰值脉冲电流	I <sub>PP</sub>	30	A
Lead Temperature 管脚温度	T <sub>L</sub>	260	°C
Lead Solder Time 管脚焊接时间	T <sub>L</sub>	10	S
Operating Temperature 工作温度	T <sub>op</sub>	-40~125	°C
Junction Temperature 结温	T <sub>J</sub>	-55~150	°C
Storage Temperature 储存温度	T <sub>stg</sub>	-55~150	°C

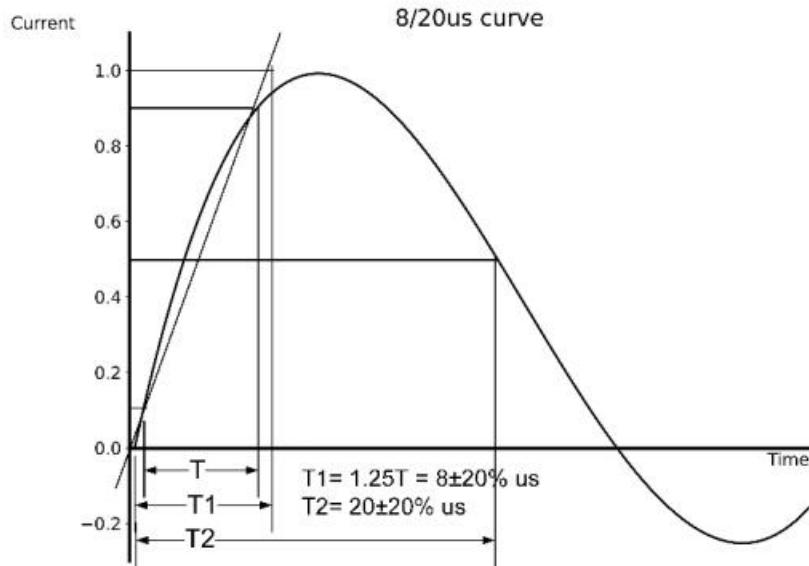
**■ Electrical Characteristics 电特性**(T<sub>A</sub>=25°C unless otherwise noted 如无特殊说明，温度为 25°C)

Characteristic Parameters 特性参数	Symbol 符号	Min 最小值	Typ 典型值	Max 最大值	Unit 单位	Condition 条件
Reverse Stand-off Voltage 反向工作电压	V <sub>RWM</sub>			5	V	
Reverse Breakdown Voltage 反向击穿电压	V <sub>BR</sub>	5.5			V	I <sub>T</sub> =1mA
Reverse Leakage Current 反向漏电流	I <sub>R</sub>			1	μA	V <sub>RWM</sub> =5V
Clamping Voltage 钳位电压	V <sub>C</sub>		8		V	I <sub>PP</sub> =1A, t <sub>p</sub> =8/20μs
Clamping Voltage 钳位电压	V <sub>C</sub>		15		V	I <sub>PP</sub> =30A, t <sub>p</sub> =8/20μs
Diode Capacitance 二极管电容	C <sub>D</sub>		300		pF	V <sub>R</sub> =0V, f=1MHz

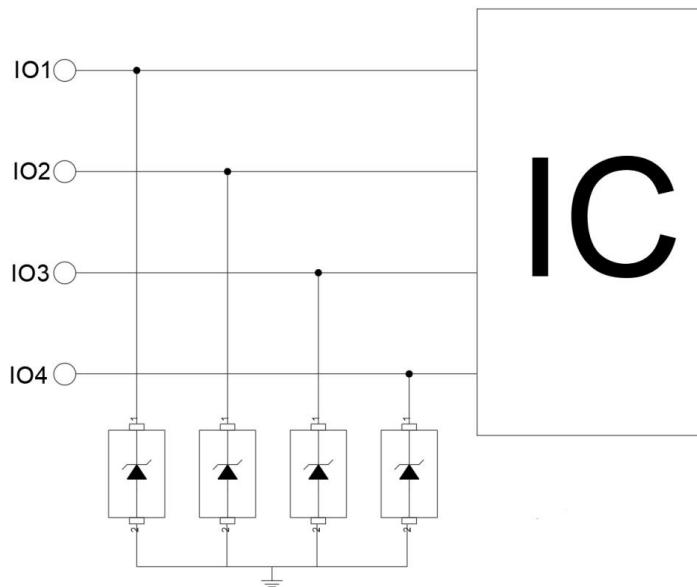
V <sub>RWM</sub>	Reverse Working Voltage 反向工作电压
V <sub>R(BR)</sub>	Reverse Breakdown Voltage 反向击穿电压@I <sub>T</sub> =1mA
I <sub>T</sub>	Test Current 测试电流
I <sub>R</sub>	Reverse Leakage Current 反向漏电流@V <sub>RWM</sub>
V <sub>C</sub>	Clamping Voltage 钳位电压
I <sub>PP</sub>	Reverse Peak Pulse Current 浪涌电流
C <sub>D</sub>	Diode Capacitance 二极管电容 V <sub>IO</sub> =0V, V <sub>P-P</sub> = 30mV, f = 1MHz



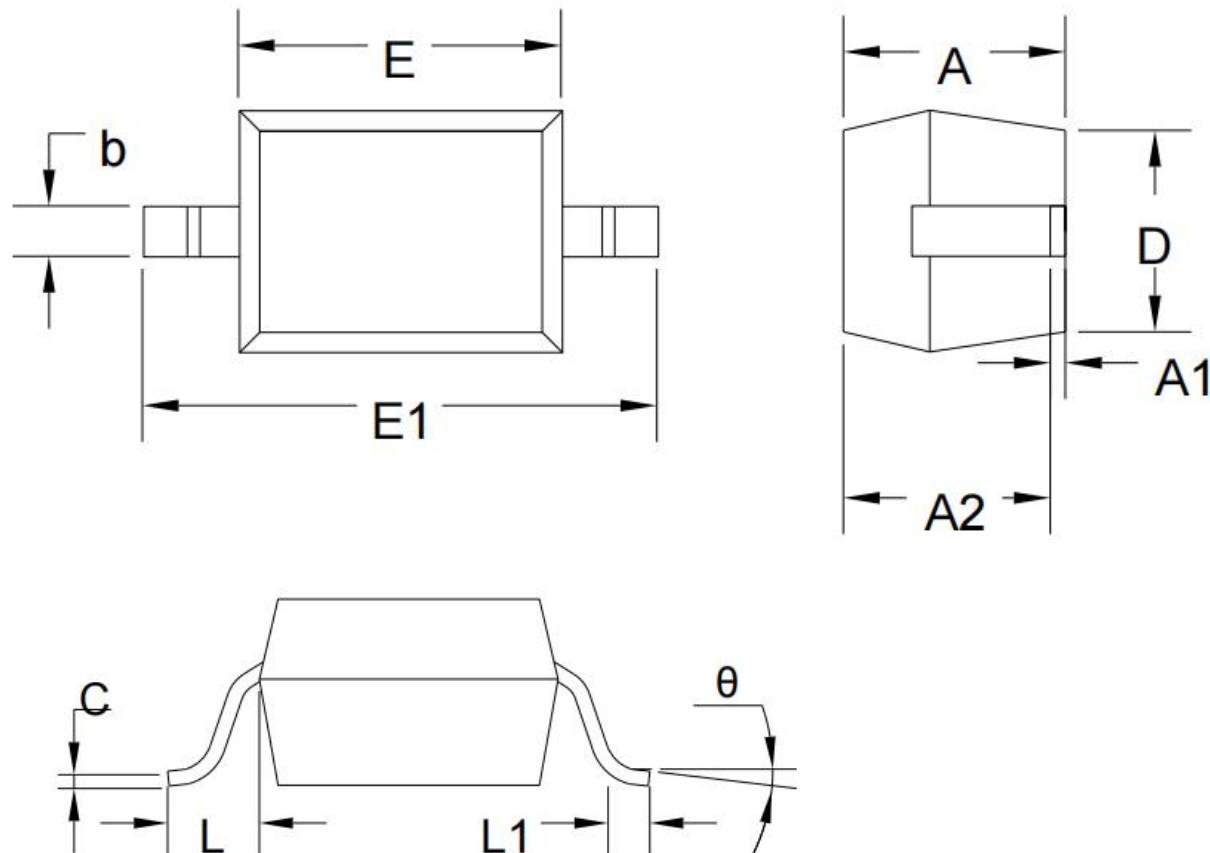
■Typical Characteristic Curve 典型特性曲线



■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°