



# 安徽富信半导体科技有限公司

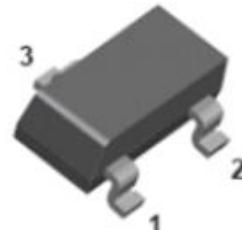
ANHUI FOSAN SEMICONDUCTOR TECHNOLOGY CO., LTD.

FSNC23T15V2UA

## SOT-23 ESD 静电保护二极管

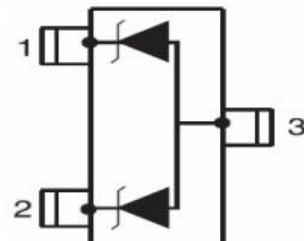
### ■Features 特点

Two Un-directional Lines 两个单向  
Or Bidirectional 或双向  
ESD Protection 静电保护



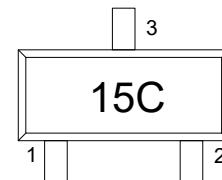
### ■Applications 应用

Computer 计算机  
Set-top box 机顶盒  
Portable electronics 便携电子产品  
Control & Monitoring 控制和监视器  
Communication System 通信系统



### ■Internal Schematic Diagram 内部结构

### ■Device Marking 产品打标



### ■Absolute Maximum Ratings 最大额定值

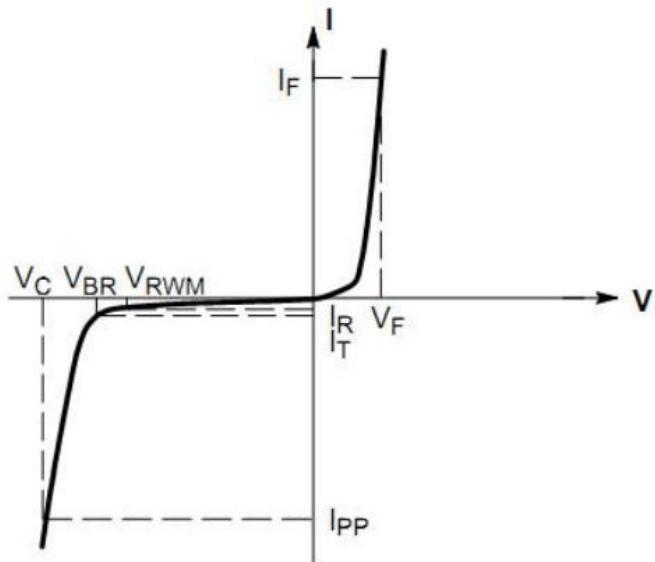
Characteristic 特性参数	Symbol 符号	Rating 额定值	Unit 单位
ESD (IEC61000-4-2 contact discharge) @25°C接触放电	V <sub>ESD</sub>	±30	KV
ESD (IEC61000-4-2 air discharge) @25°C空气放电	V <sub>ESD</sub>	±30	KV
Peak Pulse Power @25°C峰值脉冲功率	P <sub>PK</sub>	250	W
Peak Pulse Current @25°C峰值脉冲电流	I <sub>PP</sub>	7	A
Lead Temperature 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>	-40~85	°C
Junction Temperature 结温	T <sub>J</sub>	-55~125	°C
Storage Temperature 储存温度	T <sub>stg</sub>	-55~150	°C

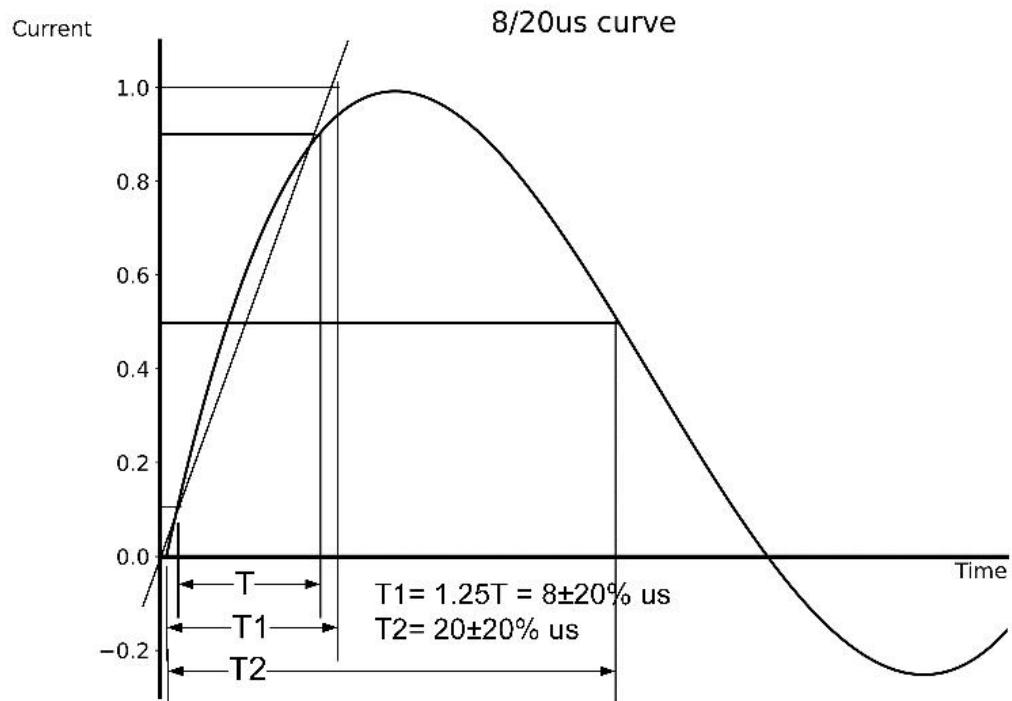
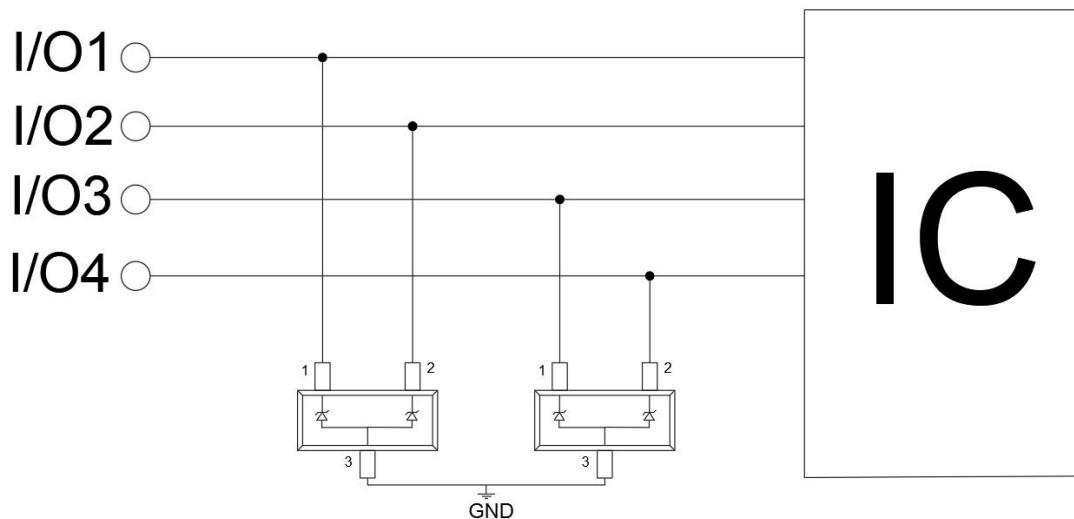
## ■ Electrical Characteristics 电特性

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

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	$V_{RWM}$			15	V	
Reverse Breakdown Voltage 反向击穿电压	$V_{BR}$	16.5			V	$I_T=1\text{mA}$
Reverse Leakage Current 反向漏电流	$I_R$			1	$\mu\text{A}$	$V_{RWM}=15\text{V}$
Clamping Voltage 钳位电压	$V_C$		19		V	$I_{PP}=1\text{A}, t_p=8/20\mu\text{s}$
Clamping Voltage 钳位电压	$V_C$		30		V	$I_{PP}=7\text{A}, t_p=8/20\mu\text{s}$
Diode Capacitance 二极管电容	$C_D$		100		pF	$V_R=0\text{V}, f=1\text{MHz}$

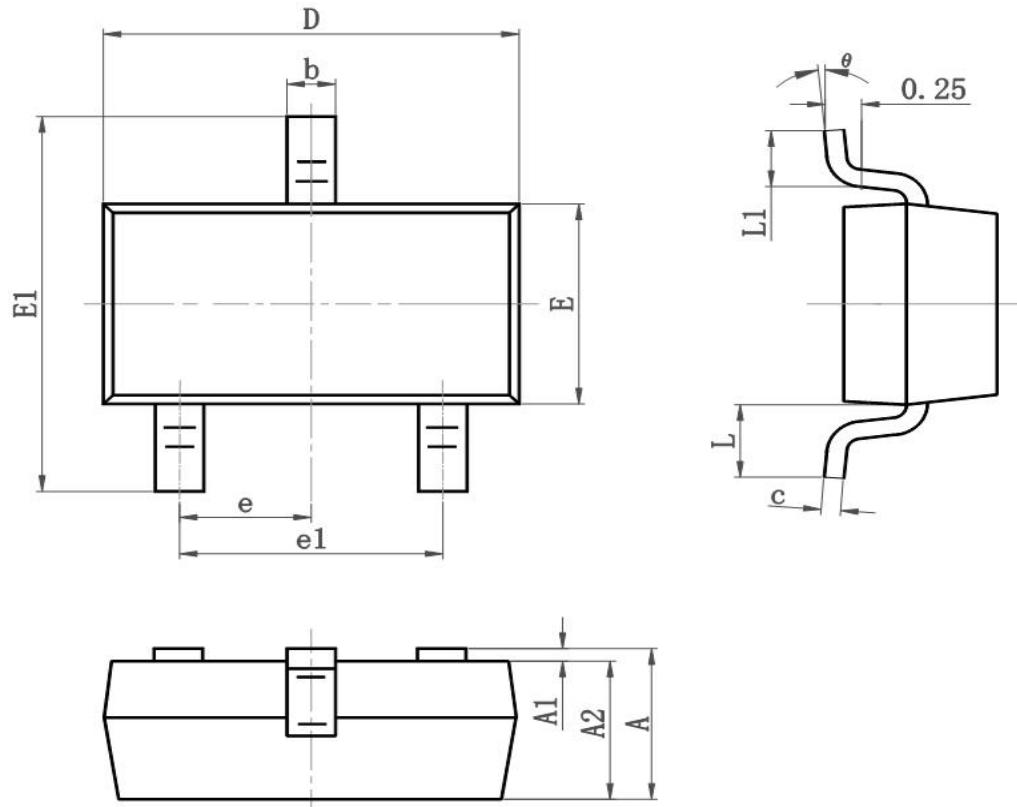
$V_{RWM}$	Reverse Working Voltage 反向工作电压
$V_{R(BR)}$	Reverse Breakdown Voltage 反向击穿电压@ $I_T=1\text{mA}$
$I_T$	Test Current 测试电流
$I_R$	Reverse Leakage Current 反向漏电流@ $V_{RWM}$
$V_C$	Clamping Voltage 钳位电压
$I_{PP}$	Reverse Peak Pulse Current 浪涌电流
$C_D$	Diode Capacitance 二极管电容 $V_{IO}=0\text{V}, V_{P-P} = 30\text{mV}, f = 1\text{MHz}$



**■Typical Characteristic Curve 典型特性曲线****■Typical Application 典型应用**

FSNC23T15V2UA

■ Dimension 外形封装尺寸



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.050	0.055
E1	2.250	2.550	0.089	0.100
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°