SOT-363 ESD 静电保护二极管

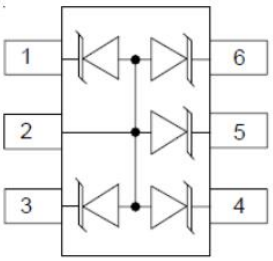
■Features 特点

Five Un-directional Lines 五通道单向
ESD Protection 静电保护

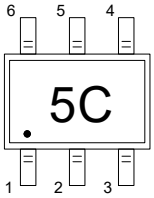
■Applications 应用

Cellular handsets and accessories 蜂窝手机及附件
Personal Digital Assistants 个人数码助手
Notebooks & Handhelds 笔记本与手持机
Portable Instrumentation 桌面仪器

■Internal Schematic Diagram 内部结构



■Device Marking 产品打标



■Absolute Maximum Ratings 最大额定值

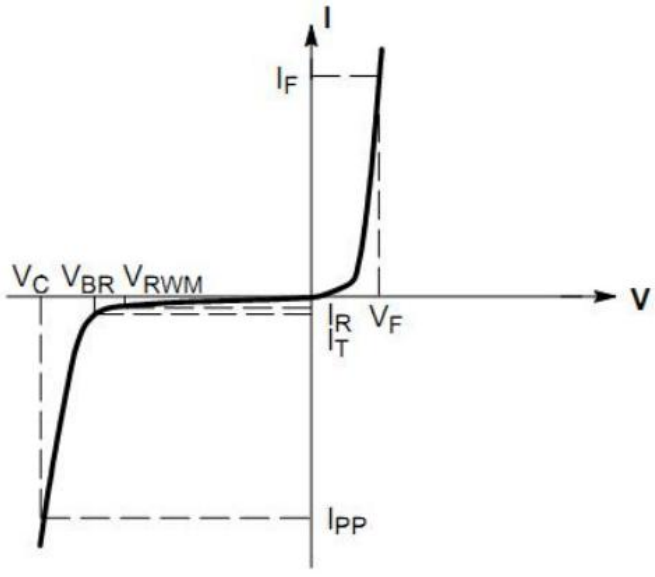
Characteristic 特性参数	Symbol 符号	Rat 额定值	Unit 单位
ESD (IEC61000-4-2 contact discharge) @25℃接触放电	V_{ESD}	±20	KV
ESD (IEC61000-4-2 air discharge) @25℃空气放电	V_{ESD}	±20	KV
Peak Pulse Power @25℃峰值脉冲功率	P_{PK}	100	W
Peak Pulse Current @25℃峰值脉冲电流	I_{PP}	6	A
Lead Temperature 管脚温度	T_L	260	℃
Lead Solder Time 管脚焊接时间	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

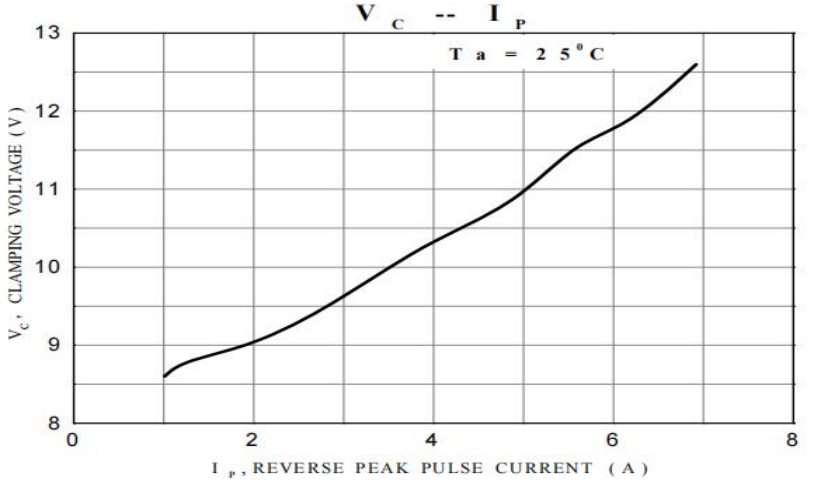
(T_A=25℃ unless otherwise noted 如无特殊说明，温度为 25℃)

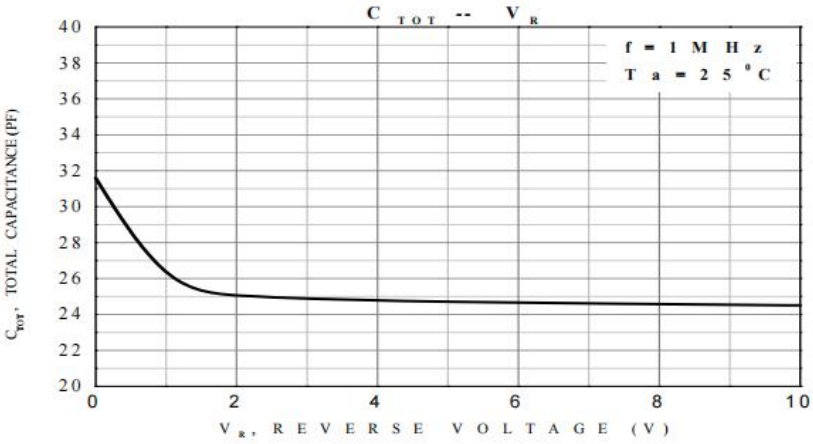
Characteristic Parameters 特性参数	Symbol 符号	Min 最小值	Typ 典型值	Max 最大值	Unit 单位	Condition 条件
Reverse Stand-off Voltage 反向工作电压	V_{RWM}			5	V	
Reverse Breakdown Voltage 反向击穿电压	V_{BR}	6		8	V	I_T=1mA
Reverse Leakage Current 反向漏电流	I_R			5	μA	V_{RWM}=5V
Clamping Voltage 钳位电压	V_C		10		V	I_{PP}=1A, tp=8/20μs
Clamping Voltage 钳位电压	V_C		18		V	I_{PP}=6A, tp=8/20μs
Junction Capacitance 结电容	C_J		50		pF	V_R=0V, f=1MHz

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

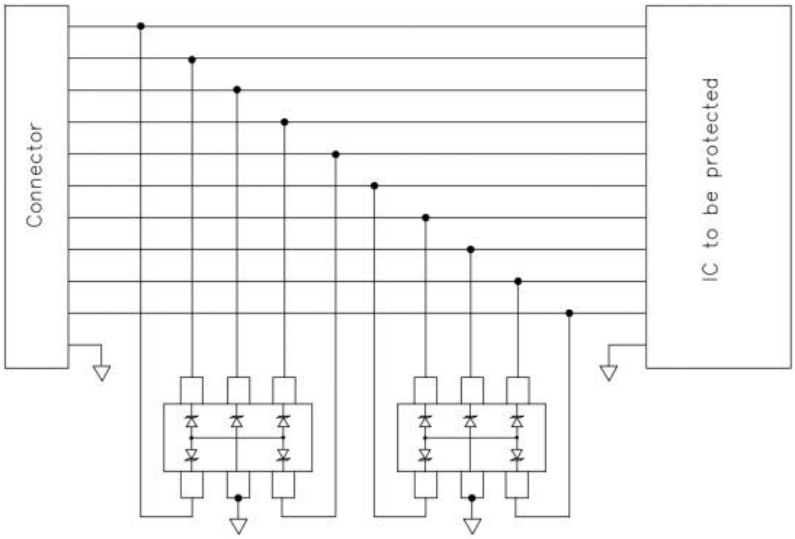


■Typical Characteristic Curve 典型特性曲线

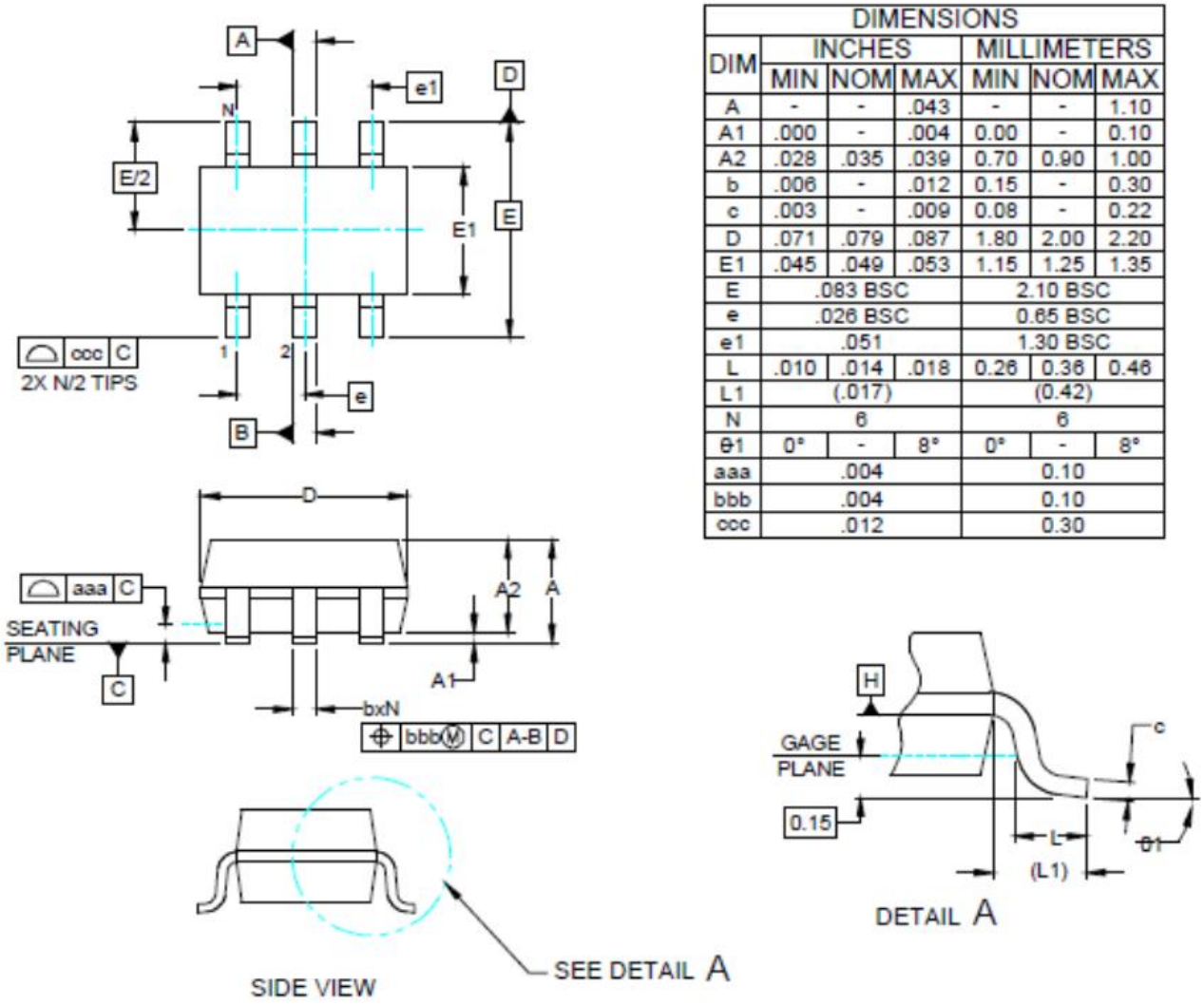




■Typical Application 典型应用



■Dimension 外形封装尺寸



DIMENSIONS						
DIM	INCHES			MILLIMETERS		
	MIN	NOM	MAX	MIN	NOM	MAX
A	-	-	.043	-	-	1.10
A1	.000	-	.004	0.00	-	0.10
A2	.028	.035	.039	0.70	0.90	1.00
b	.006	-	.012	0.15	-	0.30
c	.003	-	.009	0.08	-	0.22
D	.071	.079	.087	1.80	2.00	2.20
E1	.045	.049	.053	1.15	1.25	1.35
E	.083 BSC			2.10 BSC		
e	.026 BSC			0.65 BSC		
e1	.051			1.30 BSC		
L	.010	.014	.018	0.26	0.36	0.46
L1	(.017)			(0.42)		
N	6			6		
θ1	0°	-	8°	0°	-	8°
aaa	.004			0.10		
bbb	.004			0.10		
ccc	.012			0.30		