

DFN1006-2L ESD 静电保护二极管

■ Features 特点

IEC 61000-4-2 Level 4 ESD Protection 静电保护

- ±30kV Contact Discharge 接触放电

- ±30kV Air Discharge 空气放电

■ Applications 应用

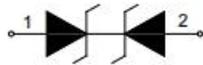
Communication systems 通讯系统

Portable electronics 便携式电子产品

Notebooks & Handhelds 笔记本或手持机

Cellular handsets and accessories 蜂窝手机及配件

■ Internal Schematic Diagram 内部结构



DFN1006-2L

■ Absolute Maximum Ratings 最大额定值

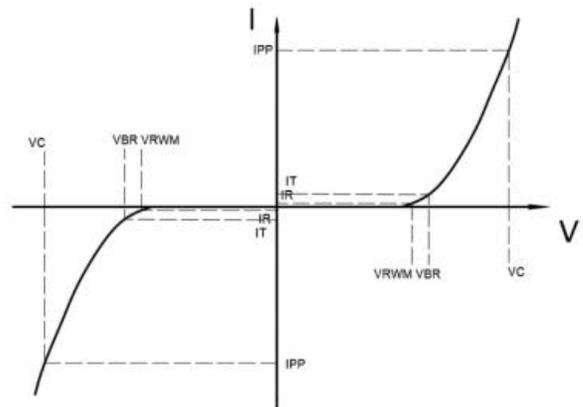
Characteristic 特性参数	Symbol 符号	Rat 额定值	Unit 单位
ESD (IEC61000-4-2 contact discharge) @25°C接触放电	V_{ESD}	±30	KV
ESD (IEC61000-4-2 air discharge) @25°C 空气放电	V_{ESD}	±30	KV
Peak Pulse Current @25°C峰值脉冲电流	I_{PP}	9	A
Peak Pulse Power @25°C峰值脉冲功率	P_{PK}	90	W
Lead Temperature 管脚温度	T_L	260	°C
Operating Temperature 工作温度	T_{op}	-40~125	°C
Junction Temperature 结温	T_J	150	°C
Storage Temperature 储存温度	T_{stg}	-55~150	°C

■ **Electrical Characteristics 电特性**

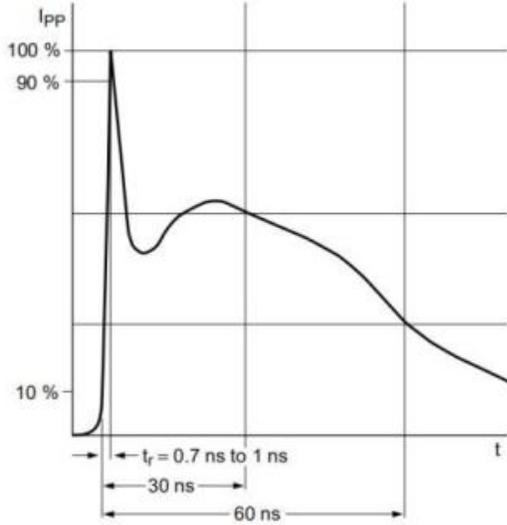
($T_A=25^{\circ}\text{C}$ unless otherwise noted 如无特殊说明, 温度为 25°C)

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}	5.8		8.2	V	$I_T=1\text{mA}$
Reverse Leakage Current 反向漏电流	I_R			0.1	μA	$V_{RWM}=5\text{V}$
Clamping Voltage 钳位电压	V_C			9	V	$I_{PP}=1\text{A}, t_p=8/20\mu\text{s}$
Clamping Voltage 钳位电压	V_C			10	V	$I_{PP}=9\text{A}, t_p=8/20\mu\text{s}$
Diode Capacitance 二极管电容	C_D		15	20	pF	$V_R=0\text{V}, f=1\text{MHz}$

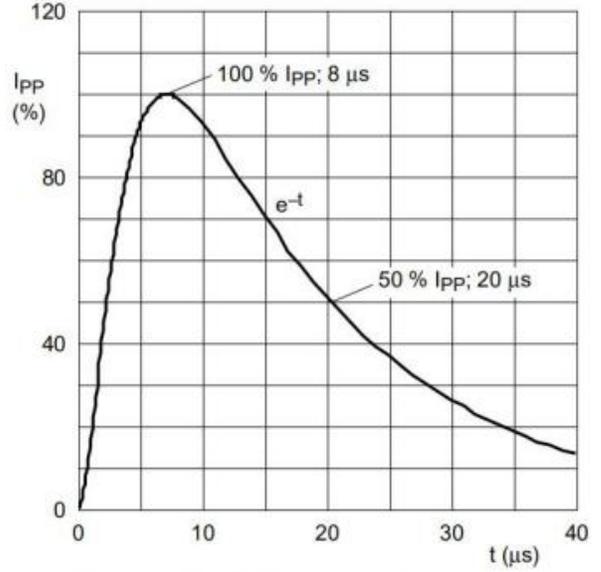
Symbol	Parameters
V_{RWM}	Peak Reverse Working Voltage
I_R	Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
I_F	Forward Current
V_F	Forward Voltage @ I_F



■ Typical Characteristic Curve 典型特性曲线

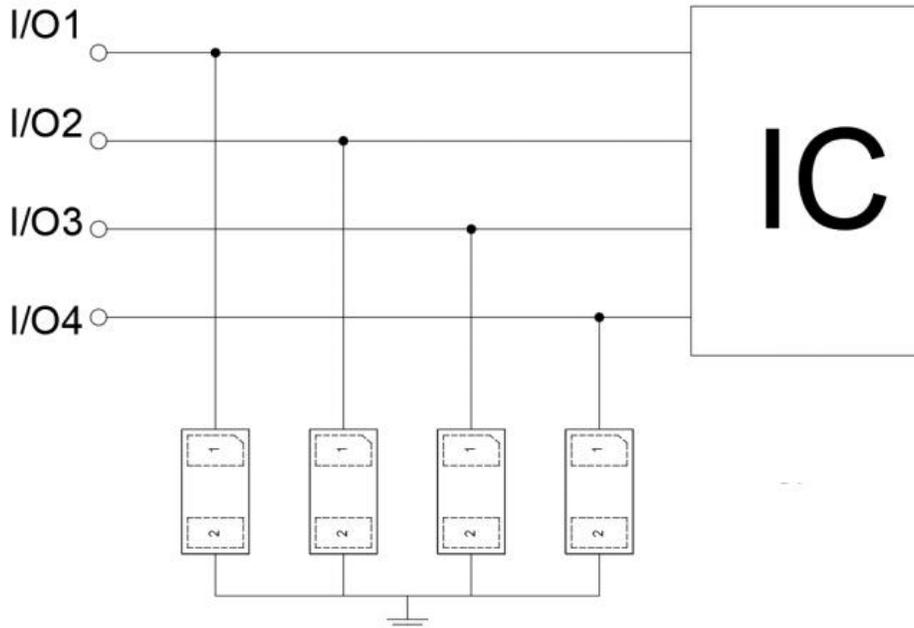


IEC61000-4-2 Waveform

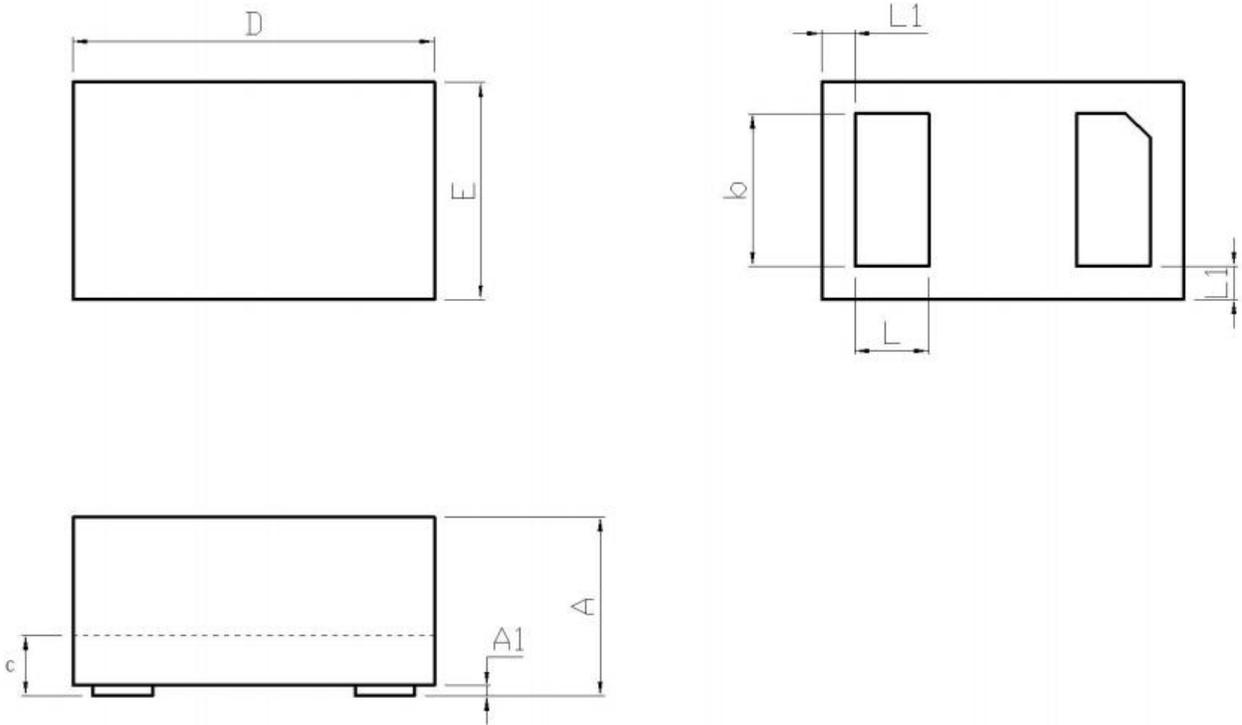


IEC 61000-4-5 Waveform(8/20μs pulse)

■ Typical Applications 典型应用



■ Dimension 外形封装尺寸



DFN1006-2L (mm)			
Dim	Min	Typ.	Max
A	0.46	0.48	0.50
A1	0	0.02	0.05
b	0.45	0.5	0.55
c	0.1	0.12	0.14
D	0.95	1.00	1.05
E	0.55	0.60	0.65
L	0.20	0.25	0.30
L1	0.035	0.05	0.065
h	0.07	0.12	0.17