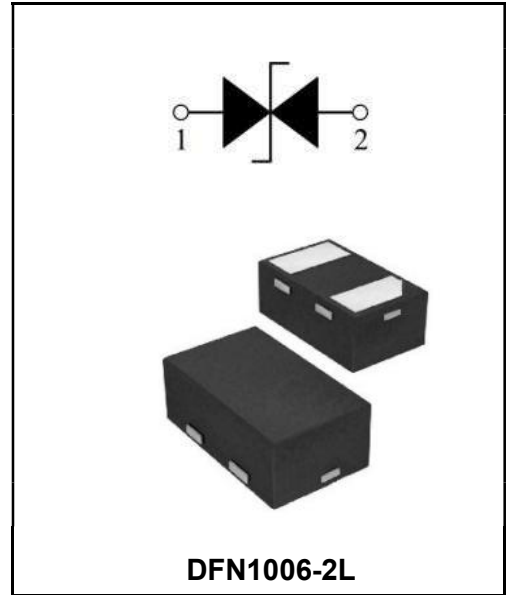


## 1. 概述和特点

ESD8D3.3C 是利用先进的硅电路工艺生产的双向低电容静电放电保护器件，主要用于电路元件快速过电保护，封装形式为 DFN1006

- 快速的响应时间
- 低箝位电压
- 低漏电电流 (<100nA)
- 低电容
- 适合于高速数据传输线的ESD 保护：  
IEC61000-4-2 (ESD)，±30kV（空气放电）；±30kV（接触放电）
- 并联使用
- 封装外型：DFN1006
  
- 典型参数



**$P_{PK}=80W$**

**$V_{RWM}=3.3V$**

**$V_C@I_{PP=8.0A} \leq 10V$**

**$I_{PP}=8.0A$**

**$C_j=15pF$**

## 2. 电特性

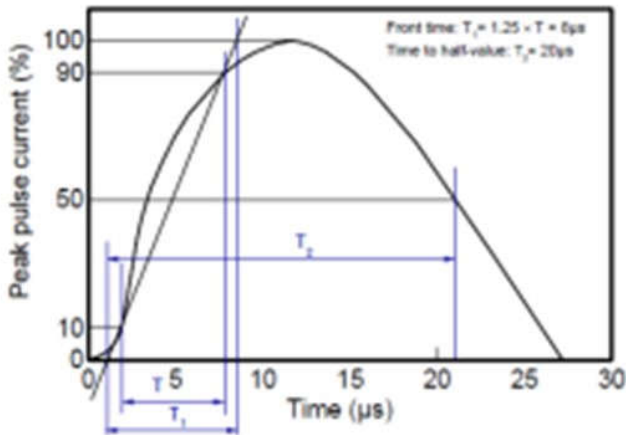
极限参数 ( $T_a=25^\circ C$ )

参数	Symbol	Rating	Unit
最大峰值功率(8/20us)	$P_{PK}$	80	W
最大峰值脉冲电流 (8/20us)	$I_{PP}$	8.0	A
最高工作温度范围	$T_{OP}$	-55 ~ +150	$^\circ C$
最高存储温度范围	$T_{STG}$	-55 ~ +150	$^\circ C$

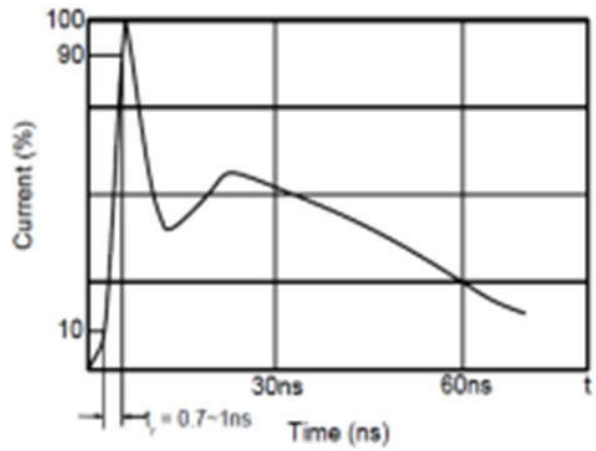
常规参数 ( $T_a=25^\circ C$ )

参数	Symbol	Test Conditions	Criterion			Unit
			Min	Typ	Max	
维持电压	$V_{RWM}$				3.3	V
击穿电压	$V_{BR}$	$I_t=1mA$	3.5	4.1	5	V
漏电流	$I_R$	$V_{RWM}=\pm 3.3V$			0.1	$\mu A$
钳位电压	$V_C$	$I_{pp}=1A, tp=8/20us$			6.5	V
钳位电压	$V_C$	$I_{pp}=8A, tp=8/20us$			10	V
电容	$C_j$	$V_R=0V, f=1Mz$		15	20	pF

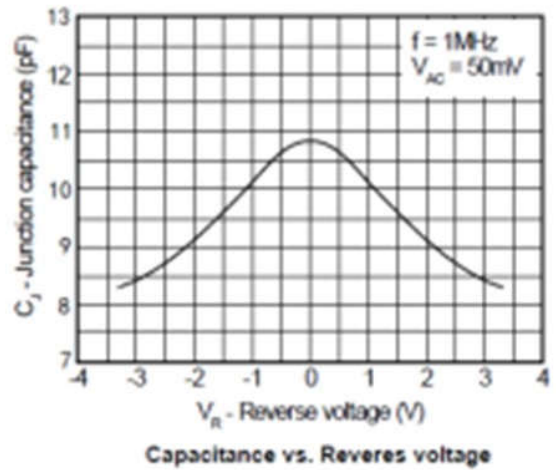
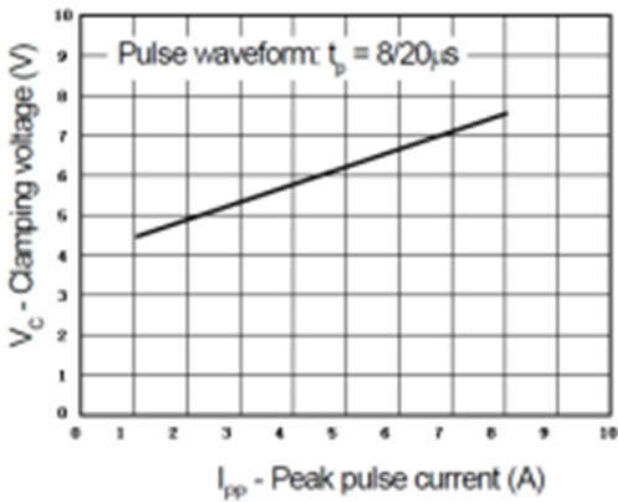
3. 特征曲线



8/20 $\mu\text{s}$  waveform per IEC61000-4-5



Contact discharge current waveform per IEC61000-4-2



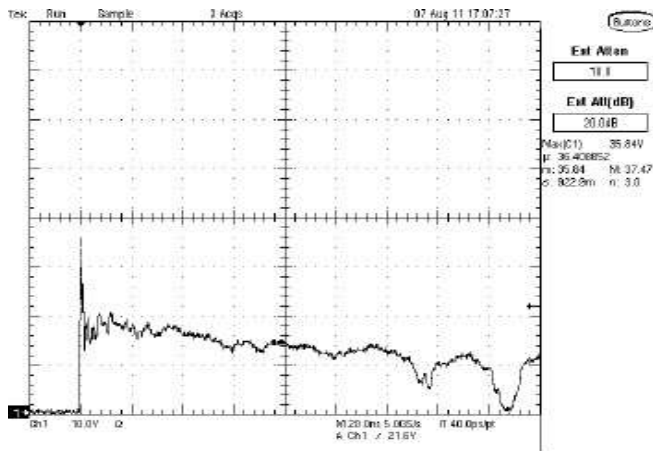


Fig1. ESD Clamping Voltage Screenshot Positive 8 kV Contact per IEC61000-4-2

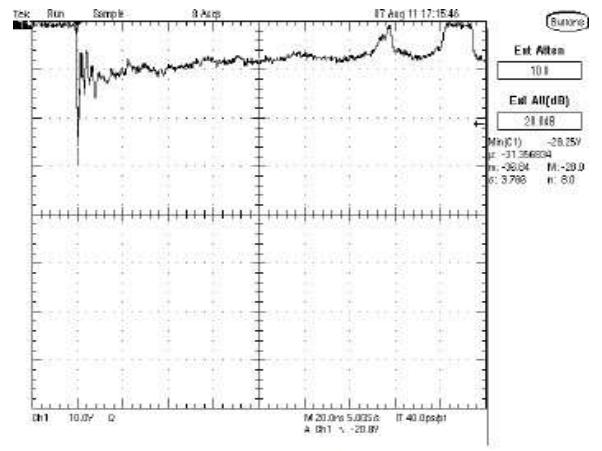
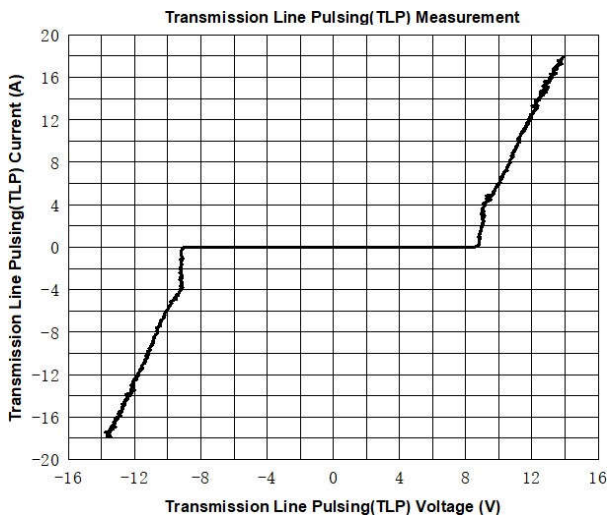


Fig2. ESD Clamping Voltage Screenshot Negative 8 kV Contact per IEC61000-4-2



**Ordering information**

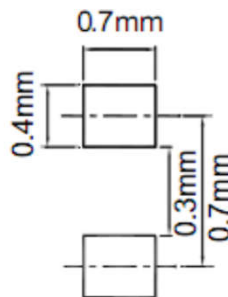
Package	Packing Description	Packing Quantity
DFN1006-2L	Tape/Reel,7"reel	10000PCS/Reel 400000PCS/Carton

**Package Dimensions**

**DFN1006-2L**

Dim.	Millimeter(mm)		Inches	
	Min.	Max.	Min.	Max.
A	0.350	0.450	0.014	0.018
D	0.550	0.650	0.022	0.026
E	0.950	1.050	0.037	0.041
D1	0.420	0.520	0.017	0.020
E1	0.550	0.650	0.022	0.026
L	0.270	0.370	0.011	0.015
L1	-	0.100	-	0.004

**The recommended mounting pad size**



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