

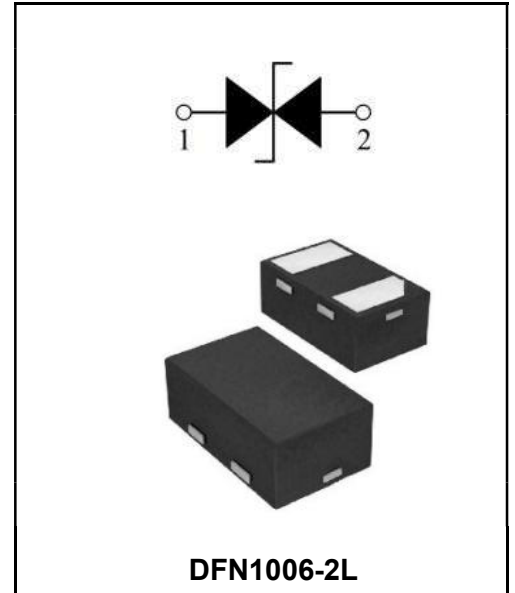
1. 概述和特点

ESD8D7.0C 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 DFN1006-2L

- 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：DFN1006-2L

典型参数

$P_{PK} = 72W$
$V_{RWM} = 7V$
$V_{C@I_{PP}=6.0A} = 12V$
$I_{PP} = 6.0A$
$C_j = 15pF$



DFN1006-2L

2. 电特性

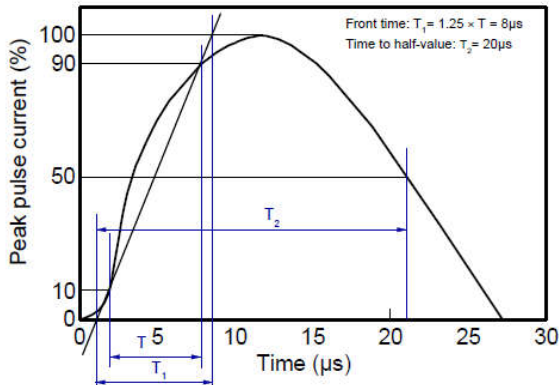
2.1 极限参数 (T_a = 25°C)

参数	Symbol	Rating	Unit
最大峰值功率(8/20us)	P _{PK}	72	W
最大峰值脉冲电流 (8/20us)	I _{PP}	6.0	A
最高工作温度范围	T _{OP}	-55 ~ +150	°C
最高存储温度范围	T _{STG}	-55 ~ +150	°C

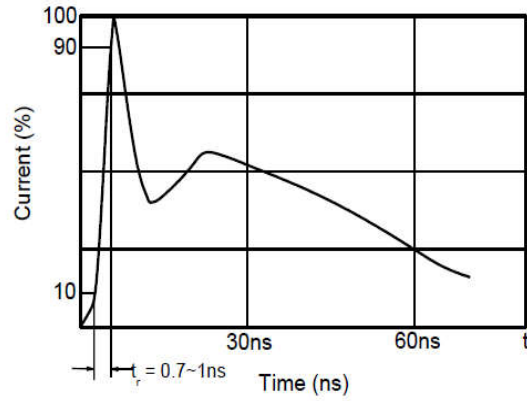
2.2 常规参数 (T_a = 25°C)

参数	Symbol	Test Conditions	Criterion			Unit
			Min	Typ	Max	
维持电压	V _{RWM}				7	V
击穿电压	V _{BR}	I _t =1mA	7.6		9.0	V
漏电流	I _R	V _{RWM} =±7.0V			0.1	uA
钳位电压	V _C	I _{pp} =1A, tp=8/20us		9	12	V
钳位电压	V _C	I _{pp} =6.0A, tp=8/20us		12	16	V
电容	C _j	V _R =0V, f=1Mz		15		pF

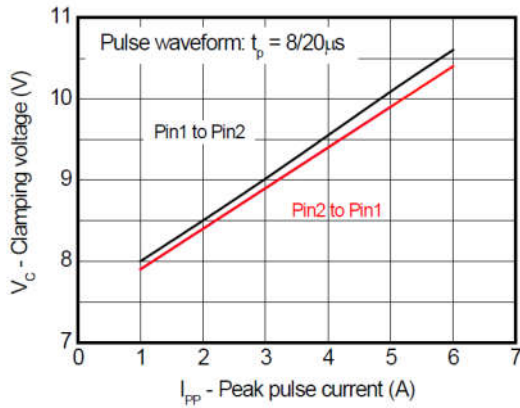
3. 特征曲线



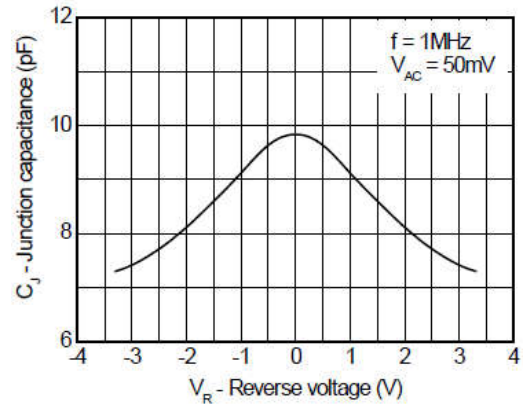
8/20μs waveform per IEC61000-4-5



Contact discharge current waveform per IEC61000-4-2



Clamping voltage vs. Peak pulse current



Capacitance vs. Reverse voltage

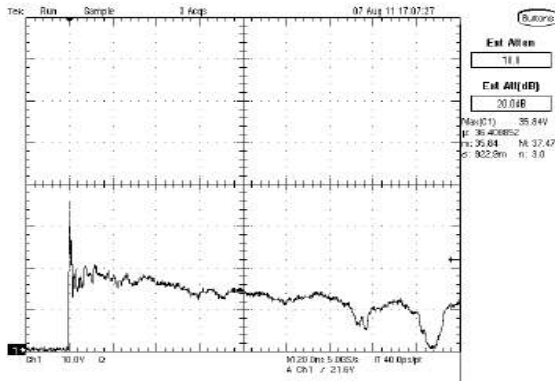


Fig1. ESD Clamping Voltage Screenshot
Positive 8 kV Contact per IEC61000-4-2

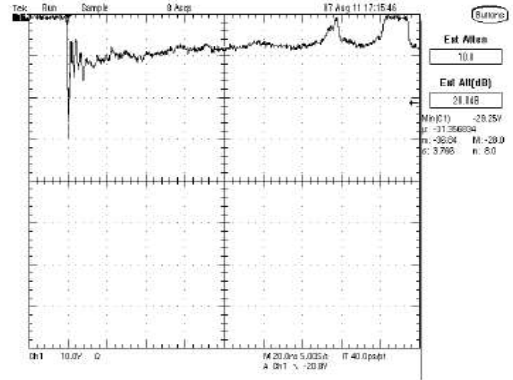
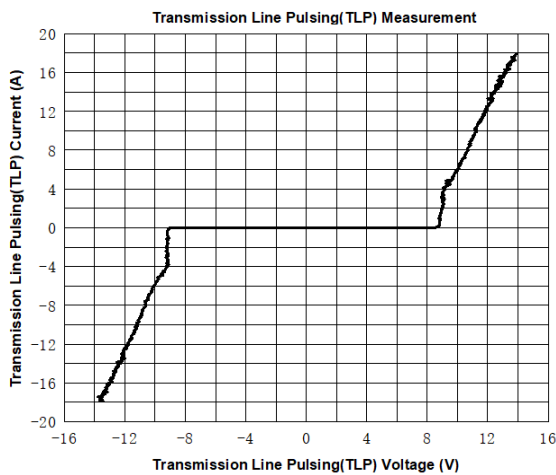


Fig2. ESD Clamping Voltage Screenshot
Negative 8 kV Contact per IEC61000-4-2



Ordering information

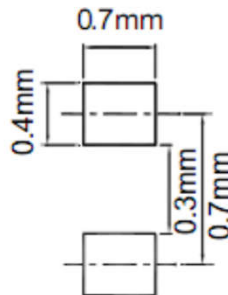
Package	Packing Description	Packing Quantity
DFN1006-2L	Tape/Reel,7"reel	10000PCS/Reel 400000PCS/Carton

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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