

APPLICATIONS

- ✧ Cell Phone Handsets and Accessories.
- ✧ Microprocessor based equipment.
- ✧ Personal Digital Assistants (PDA's).
- ✧ Notebooks, Desktops, and Servers.
- ✧ Portable Instrumentation.
- ✧ Peripherals.
- ✧ Pagers.

IEC COMPATIBILITY

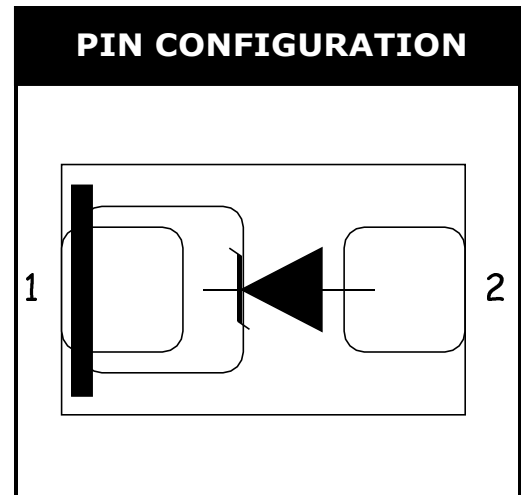
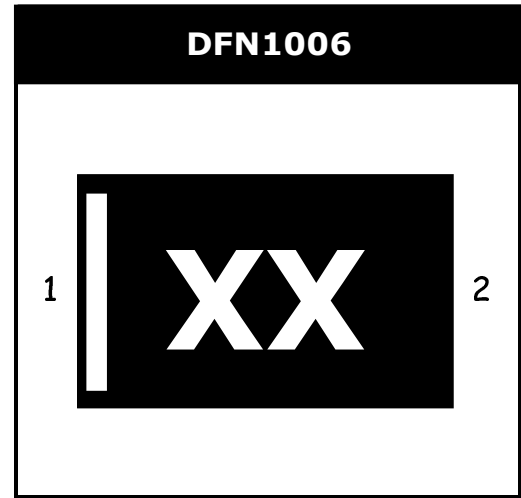
- ✧ IEC61000-4-2 (ESD) $\pm 30\text{kV}$ (air), $\pm 30\text{kV}$ (contact) : 3V, 5V, 8V, 12V and 15V.
- ✧ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact) : 24V and 36V.
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).

FEATURES

- ✧ 200 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$).
- ✧ Protects One Unirectional I/O Line.
- ✧ Low clamping voltage.
- ✧ Working voltages : 3V, 5V, 8V, 12V, 15V, 24V and 36V.
- ✧ Low leakage current .

MECHANICAL CHARACTERISTICS

- ✧ DFN1006 (1.0x0.6x0.5mm) Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 0.5 Milligrams (Approximate).
- ✧ Quantity Per Reel : 5,000pcs.
- ✧ Reel Size : 7 inch.
- ✧ Lead Finish : Lead Free.



DEVICE CHARACTERISTICS
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{PP}	200	Watts
Lead Soldering Temperature	T _L	260 (10 sec.)	°C
Operating Temperature Range	T _J	-55 ~ 150	°C
Storage Temperature Range	T _{STG}	-55 ~ 150	°C

ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)

PART NUMBER	DEVICE MARKING	V _{RWM}	V _B	I _T	V _C	V _C		I _R	C _T
		(V) (max.)	(V) (min.)	(mA)	@1A (max.)	(max.)	(@A)	(μA) (max.)	(pF) (typ.)
SDA0301P	YA	3	4	1	6	13	16	200	200
SDA0501P	YB	5	6	1	9.8	15	15	5	115
SDA0801P	YC	8	8.5	1	13.3	19	11	5	90
SDA1201P	YD	12	13.3	1	17.6	28	7	1	54
SDA1501P	YE	15	16.6	1	21.5	30	6	1	48
SDA2401P	YH	24	26.7	1	36	48	3	1	43
SDA3601P	YN	36	40	1	60	72	2	1	41

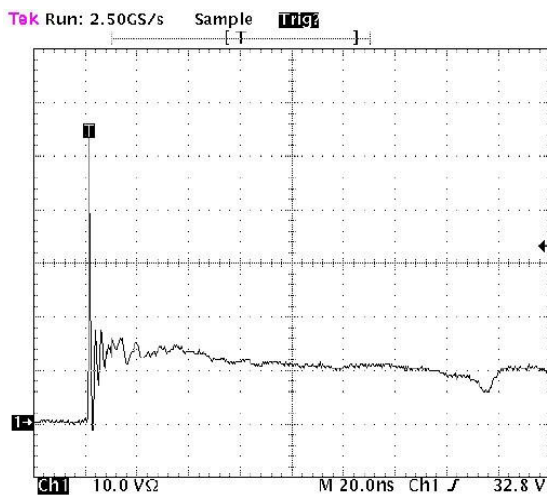


Figure 1. ESD Clamping Voltage Screenshot
Positive 8 kV Contact per IEC61000-4-2

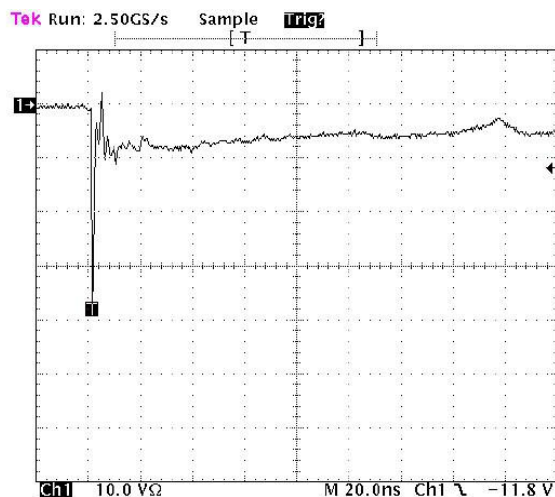
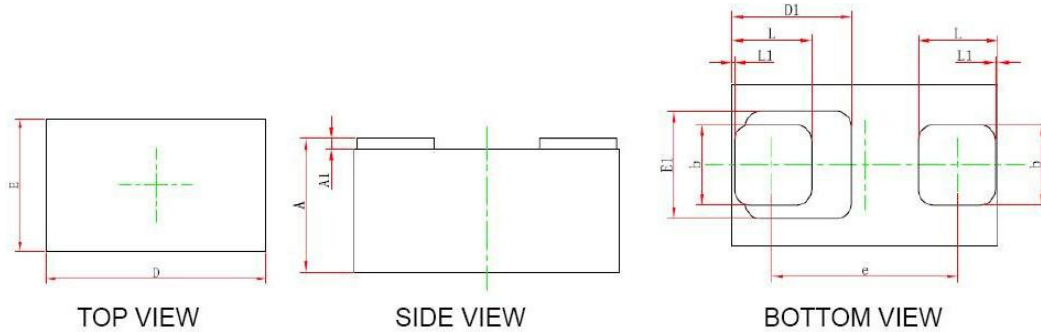
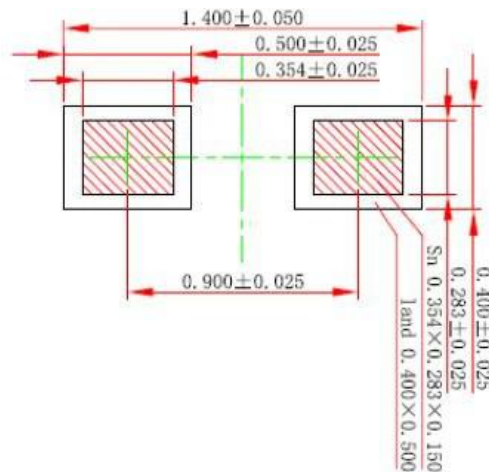


Figure 2. ESD Clamping Voltage Screenshot
Negative 8 kV Contact per IEC61000-4-2

DFN1006 PACKAGE OUTLINE & DIMENSIONS

PACKAGE DIMENSIONS

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.450	0.550	0.018	0.022
A1	0.010	0.070	0.000	0.003
D	0.950	1.050	0.037	0.041
E	0.550	0.650	0.022	0.026
D1	0.450REF.		0.018REF.	
E1	0.400REF.		0.016REF.	
b	0.275	0.325	0.011	0.013
e	0.675	0.725	0.027	0.029
L	0.275	0.325	0.011	0.013
L1	0.010REF.		0.000REF.	

*** SOLDERING FOOTPRINT**

 Website: <http://www.jksemi.com>

For additional information, please contact your local Sales Representative.

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