

## APPLICATIONS

- ✧ Cellular Handsets & Accessories.
- ✧ Personal Digital Assistants (PDAs).
- ✧ Notebooks & Handhelds.
- ✧ Portable Instrumentation.
- ✧ Digital Cameras.
- ✧ Peripherals.
- ✧ MP3.

## IEC COMPATIBILITY

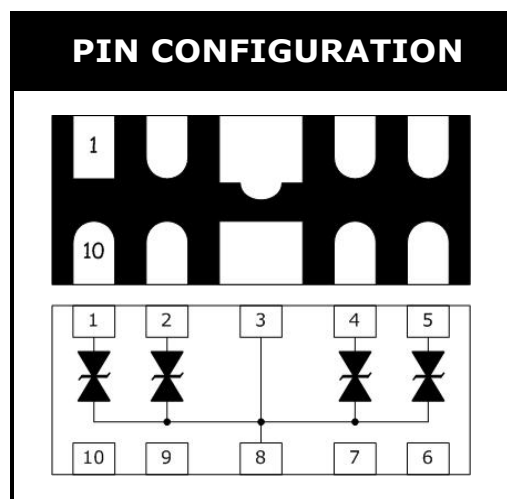
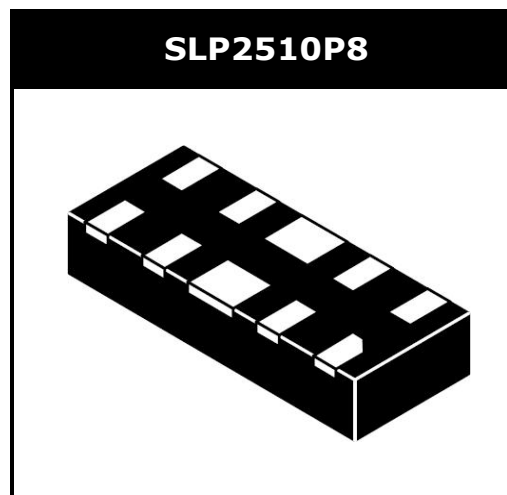
- ✧ IEC61000-4-2 (ESD)  $\pm 15\text{kV}$  (air),  $\pm 8\text{kV}$  (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).
- ✧ IEC61000-4-5 (LIGHTING) 5A (8/20 $\mu\text{s}$ ).

## FEATURES

- ✧ 200 Watts Peak Pulse Power per Line ( $t_p=8/20\mu\text{s}$ ).
- ✧ Protects four high-speed I/O lines.
- ✧ Low clamping voltage.
- ✧ Working voltages : 3.3, 5.0 and 8.0V.
- ✧ Low leakage current.

## MECHANICAL CHARACTERISTICS

- ✧ SLP2510P8 (2.5x1.0x0.5mm) Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 2.5 Milligrams (Approximate).
- ✧ Quantity Per Reel : 3,000pcs.
- ✧ 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 <sub>PP</sub>	200	Watts
Lead Soldering Temperature	T <sub>L</sub>	260 (10 sec.)	°C
Operating Temperature Range	T <sub>J</sub>	-55 ~ 150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 ~ 150	°C

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

PART NUMBER	DEVICE MARKING	V <sub>B</sub>	I <sub>T</sub>	I <sub>R</sub>	V <sub>C</sub>	V <sub>C</sub>		C <sub>T</sub>	C <sub>T</sub>
		(V) (min.)	(mA)	(μA) (max.)	@1A (max.)	(max.)	(@A)	VR=0V (pF) (typ.)	VR=3.3V (pF) (typ.)
SDA33CP10	CP33	4	1	1	7.5	12.6	5	10	4.5
SDA05CP10	CP05	6	1	1	9.8	18.6	5	10	4.5
SDA08CP10	CP08	8	1	1	14	25	3	7	3.5

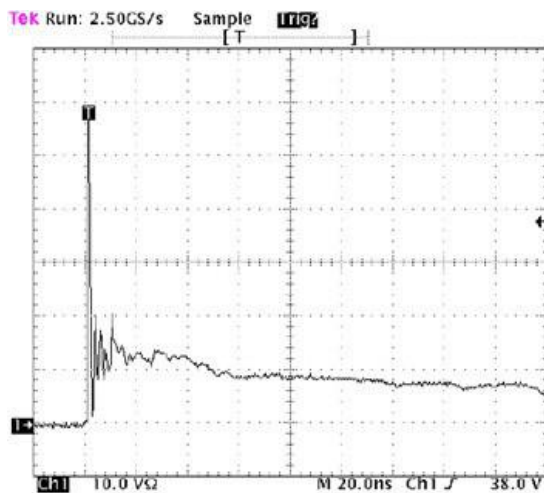


Figure 1. ESD Clamping Voltage Screenshot  
 Positive 8 kV contact per IEC 61000-4-2

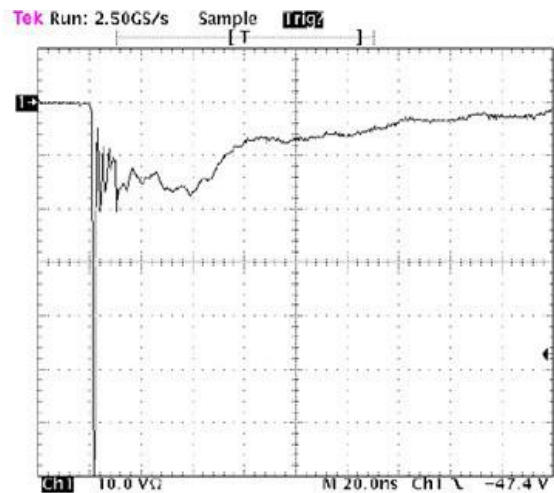
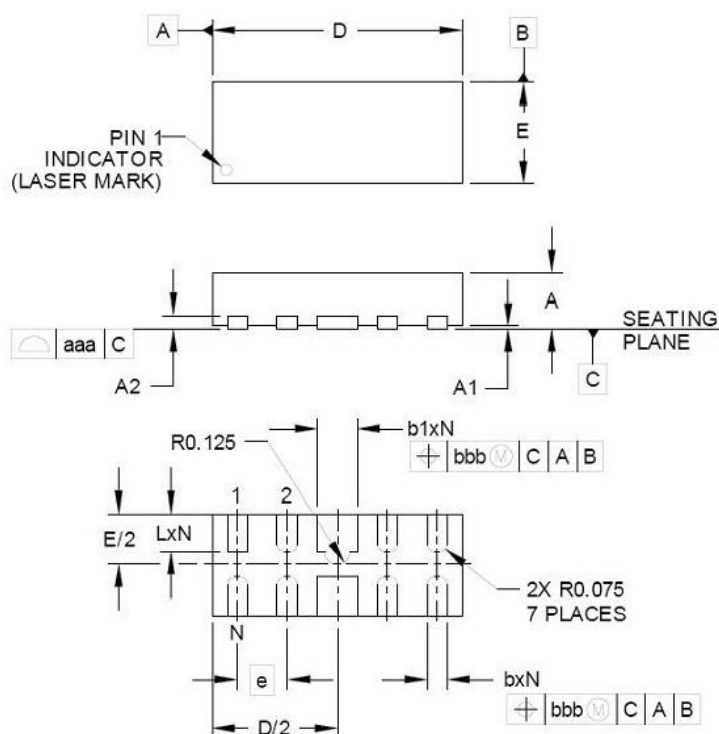


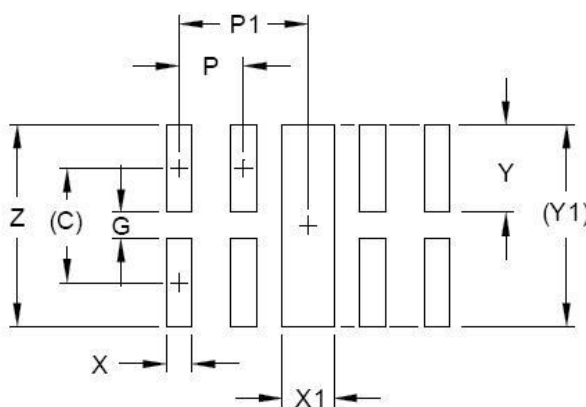
Figure 2. ESD Clamping Voltage Screenshot  
 Negative 8 kV contact per IEC 61000-4-2

## SLP2510P8 PACKAGE OUTLINE & DIMENSIONS



DIM	DIMENSIONS					
	INCHES			MILLIMETERS		
	MIN	NOM	MAX	MIN	NOM	MAX
A	.020	.023	.026	0.50	0.58	0.65
A1	0.00	.001	.002	0.00	0.03	0.05
A2	(.005)			(0.13)		
b	.006	.008	.010	0.15	0.20	0.25
b1	.014	.016	.018	0.35	0.40	0.45
D	.094	.098	.102	2.40	2.50	2.60
E	.035	.039	.043	0.90	1.00	1.10
e	.020 BSC			0.50 BSC		
L	.012	.015	.017	0.30	0.38	0.425
N	10			10		
aaa	.003			0.08		
bbb	.004			0.10		

## \* SOLDERING FOOTPRINT



DIMENSIONS		
DIM	INCHES	MILLIMETERS
C	(.034)	(0.875)
G	.008	0.20
P	.020	0.50
P1	.039	1.00
X	.008	0.20
X1	.016	0.40
Y	.027	0.675
Y1	(.061)	(1.55)
Z	.061	1.55

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

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