

Ultra Low Capacitance TVS Diode Array

IEC Compliance

- ◆ IEC 61000-4-2 (ESD)
8KV - Contact Discharge
15KV - Air Discharge
- ◆ IEC 61000-4-4 (EFT) 40A (5/50ns)

Application

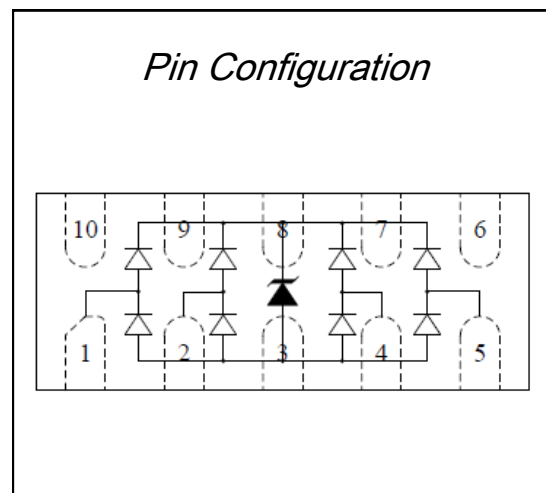
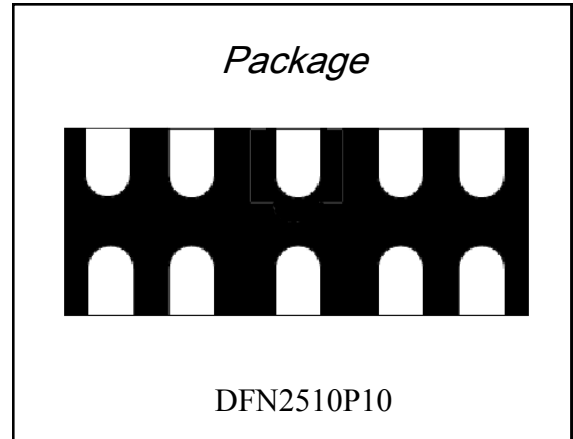
- ◆ USB Application
- ◆ HDMI Application
- ◆ Handheld Device
- ◆ Computer

Features

- ◆ 80W Peak Pulse Power
- ◆ Low Clamping Voltage
- ◆ Low Leakage Current
- ◆ 4 Line Protection

Mechanical Characteristics

- ◆ DFN2510P10 Package
- ◆ Weight 2.5 Milligram (Approximate)
- ◆ Flammability Rating UL94V-0
- ◆ Lead Free Plating
- ◆ Reel Size 7"
- ◆ 3,000 PCS Per Reel



DEVICE CHARACTERISTICS

Maximum Rating			
Parameter	Symbol	Value	Units
Peak Pulse Power (tp=8/20us waveform)	P _{PP}	80	Watt
Lead Soldering Temperature	T _L	260 (10s)	°C
Operating Temperature Range	T _J	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C

Electrical Characteristics (@25 °C)							
Part Number	Device Marking	V _{RWM} (Volt)	V _B (Volt)	V _C (Volt)	I _{PP} (A)	I _R (uA)	C _J (pF)
NLULC0524N	524	5	6	20	4	1	0.6

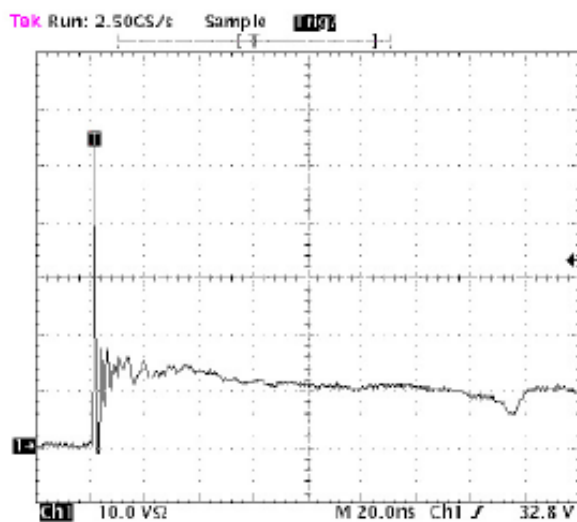


Figure1. Clamping waveform of positive 8KV ESD contact

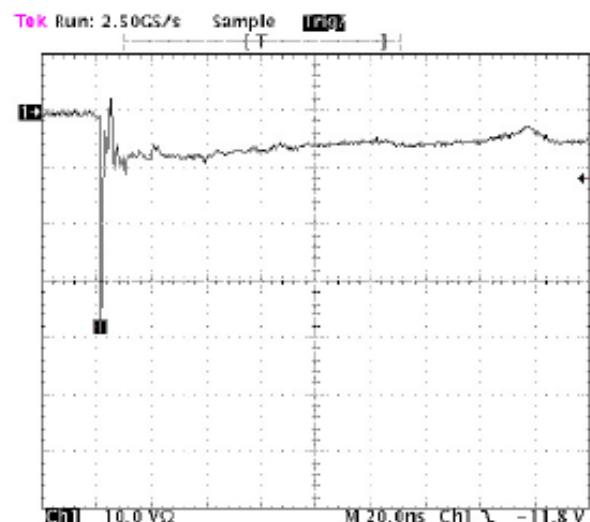
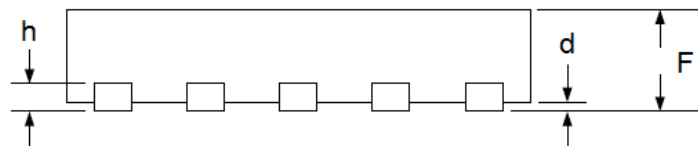
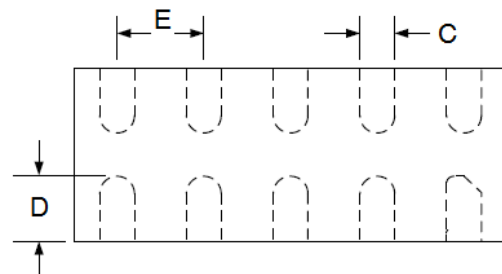
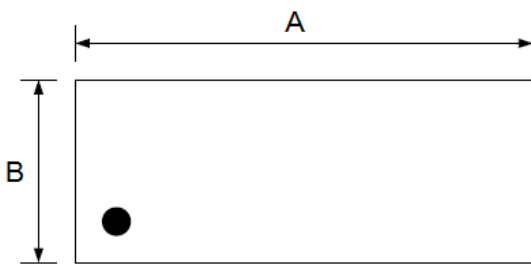


Figure2. Clamping waveform of negative 8KV ESD contact

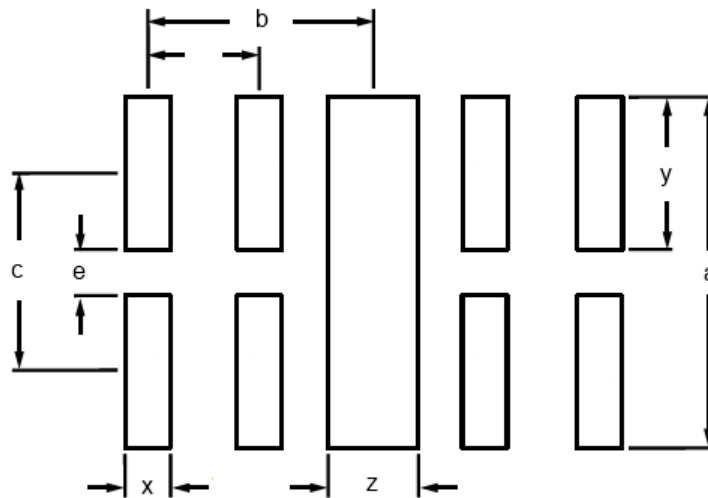
DEVICE OUTLINE

Outline Dimension				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	2.40	2.60	0.094	0.102
B	0.90	1.10	0.035	0.043
C	0.15	0.25	0.014	0.018
D	0.30	0.40	0.012	0.015
E	0.50TYP		0.020TYP	
F	0.15	0.25	0.006	0.010
d	0.00	0.05	0.000	0.002
h	0.15TYP		0.005TYP	



LAYOUT PAD DIMENSION

Layout PAD Dimension				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
a	1.55TYP		0.062TYP	
b	0.95	1.05	0.037	0.041
c	0.88TYP		0.034TYP	
e	0.15	0.25	0.006	0.010
x	0.20TYP		0.008TYP	
y	0.65	0.70	0.026	0.028
z	0.35	0.45	0.014	0.018



Revision History	Modification Description
Rev.1.0	Initial Release
Rev.1.01	Edit Document Layout