

Ultra Low Capacitance TVS Diode Array

Compliance Standard

- ◆ IEC 61000-4-2 (ESD)
30KV - Contact Discharge
30KV - Air Discharge
- ◆ IEC 61000-4-4 (EFT) 40A (5/50ns)
- ◆ IEC 61000-4-5 (Surge) 5.0 (8/20us)

Applications

- ◆ Ethernet Application
- ◆ HDMI Application
- ◆ Handheld Device
- ◆ Computer

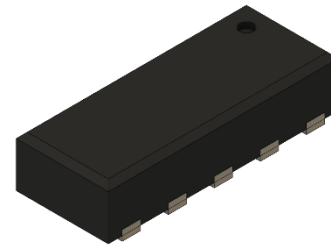
Features

- ◆ 40W Peak Pulse Power
- ◆ Low Clamping Voltage
- ◆ Low Leakage Current
- ◆ 4 Line Protection

Mechanical Characteristics

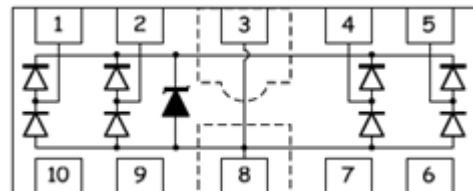
- ◆ DFN-2510P10 Package
- ◆ Weight 3 Milligram (Approximate)
- ◆ Flammability Rating UL94V-0
- ◆ Lead Free Plating
- ◆ Reel Size 7"
- ◆ 3000 PCS Per Reel

Package



DFN-2510P10

Pin Configuration



DEVICE CHARACTERISTICS

Maximum Rating			
Parameter	Symbol	Value	Unit
Peak Pulse Power	P _{PP}	40	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	Marking	V _{RWM} (Volt)	V _B (Volt)	V _C (Volt)	I _{PP} (A)	I _R (uA)	C _J (pF)
NLULC3324P	P32A	3.3	4.0	8.8	5.0	1.0	0.5



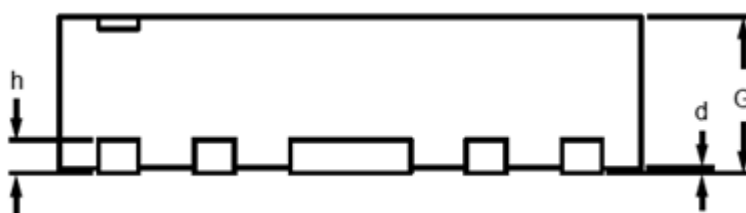
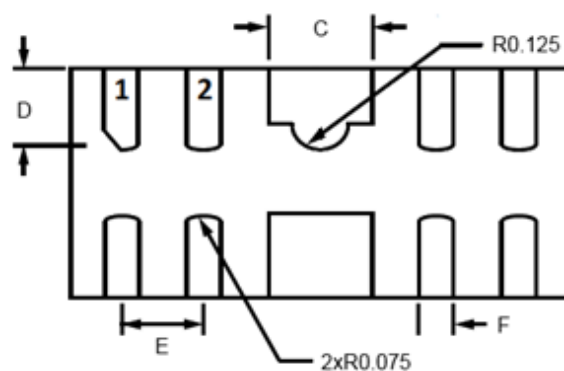
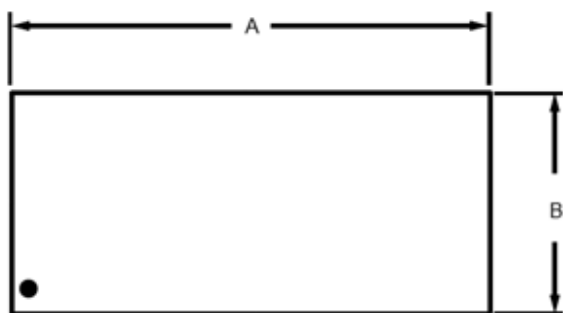
Figure1. Clamping waveform of positive 8KV ESD contact



Figure2. Clamping waveform of negative 8KV ESD contact

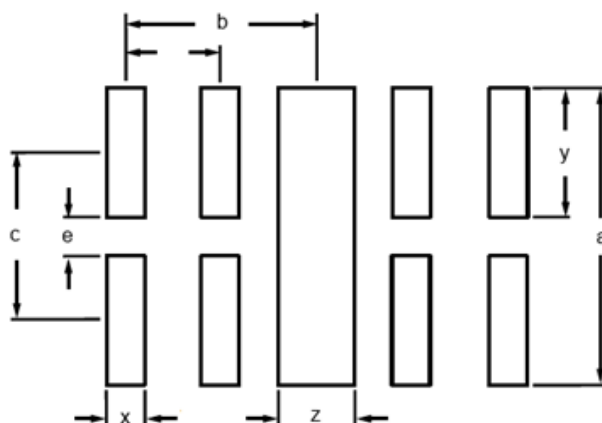
DEVICE OUTLINE

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	0.35	0.45	0.014	0.018
D	0.30	0.45	0.012	0.015
E	0.50TYP		0.50TYP	
F	0.15	0.25	0.006	0.010
G	0.50	0.65	0.020	0.026
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		1.55TYP	
b	0.95	1.05	0.037	0.041
c	0.88TYP		0.88TYP	
e	0.15	0.25	0.006	0.010
x	0.20TYP		0.20TYP	
y	0.65	0.70	0.026	0.028
z	0.35	0.45	0.014	0.018



Revision History	Description
v2.0	Re-organize datasheet layout