
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) 30.0 (8/20us)

Applications

- ◆ Ethernet Application
- ◆ Embedded System
- ◆ Handheld Device
- ◆ Computer

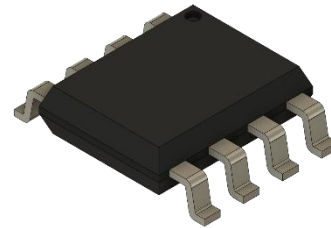
Features

- ◆ 600W Peak Pulse Power
- ◆ Low Clamping Voltage
- ◆ Low Leakage Current
- ◆ 2 Pair Differential or 4 Line Protection

Mechanical Characteristics

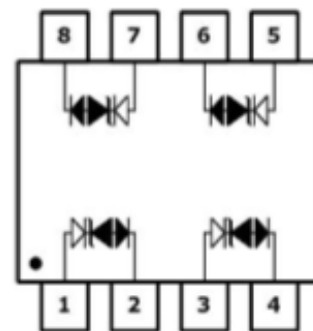
- ◆ SO-8 Package
- ◆ Weight 70 Milligram (Approximate)
- ◆ Flammability Rating UL94V-0
- ◆ Lead Free Plating
- ◆ Reel Size 13"
- ◆ 2500 PCS Per Reel

Package



SO-8

Pin Configuration



DEVICE CHARACTERISTICS

<i>Maximum Rating</i>			
Parameter	Symbol	Value	Unit
Peak Pulse Power	P _{PP}	600	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

<i>Electrical Characteristics (@25 °C)</i>							
Part Number	Marking	V _{RWM} (Volt)	V _B (Volt)	V _C (Volt)	I _{PP} (A)	I _R (uA)	C _J (pF)
NLSH2.8-4	LC3304EP8	2.8	3.0	21.0	30.0	0.1	2.0



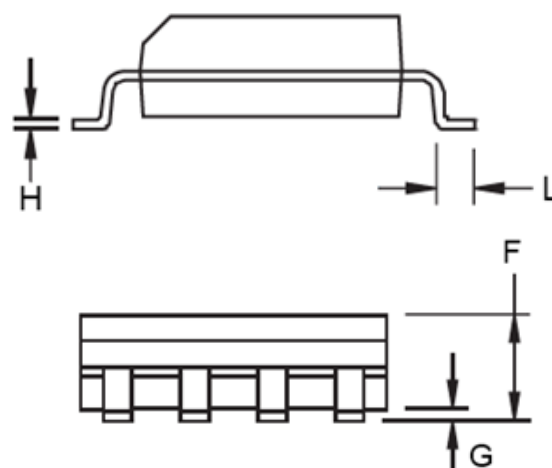
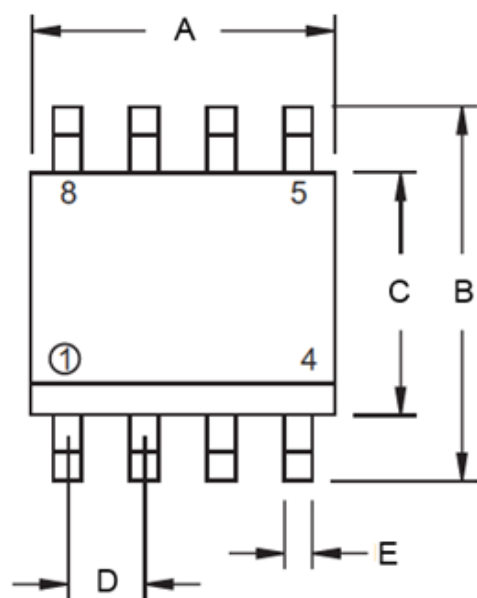
Figure1. Clamping waveform of positive 8KV ESD contact



Figure2. Clamping waveform of negative 8KV ESD contact

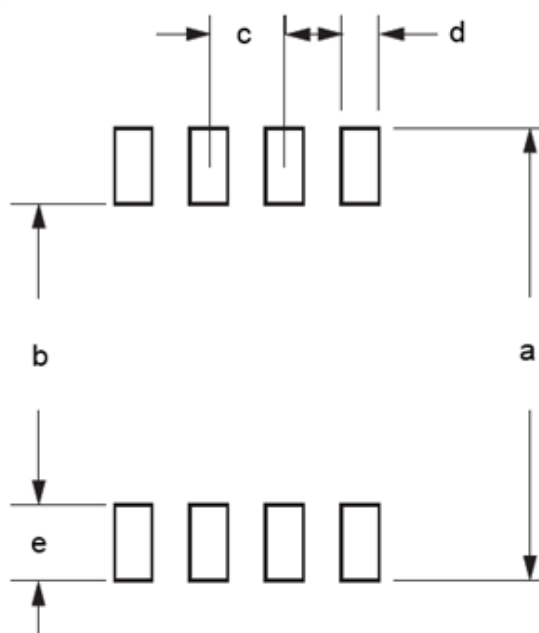
DEVICE OUTLINE

Outline Dimension				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	4.70	5.10	0.185	0.200
B	6.00TYP		6.00TYP	
C	3.80	4.00	0.149	0.157
D	1.27TYP		1.27TYP	
E	0.33	0.51	0.013	0.020
F	1.35	1.75	0.053	0.069
G	0.10	0.25	0.004	0.010
H	0.17	0.25	0.006	0.010
L	0.40	1.27	0.015	0.050



LAYOUT PAD DIMENSION

Layout PAD Dimension				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
a	6.10	6.30	0.240	0.248
b	3.95	4.15	0.155	0.163
c	1.27TYP		1.27TYP	
d	0.65	0.85	0.025	0.033
e	1.10	1.30	0.043	0.051



Revision History	Description
v2.0	Re-organize datasheet layout