
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

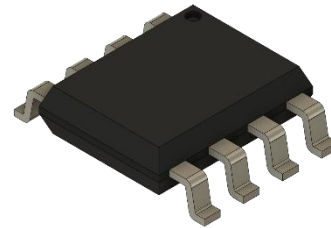
Features

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

Mechanical Characteristics

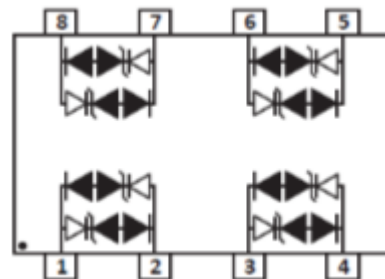
- ◆ SO-8 Package
- ◆ Weight 70 Milligram (Approximate)
- ◆ Flammability Rating UL94V-0
- ◆ Lead Free Plating
- ◆ Reel Size 13"
- ◆ 2500 PCS Per Reel

Package



SO-8

Pin Configuration



DEVICE CHARACTERISTICS

Maximum Rating			
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

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)
NLSH2.8-8	SLVU2.8-8	2.8	3.0	21.0	30.0	1.0	7.0

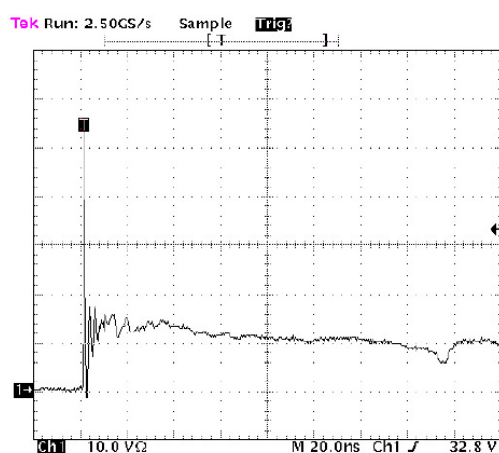


Figure1. Clamping waveform of positive 8KV ESD contact

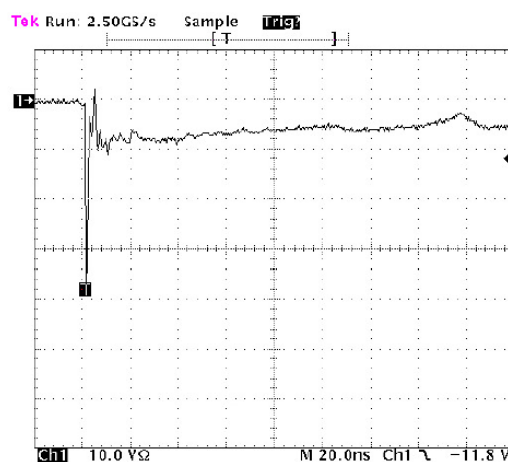
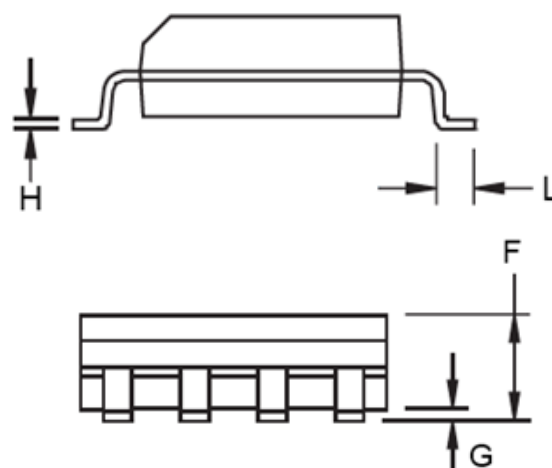
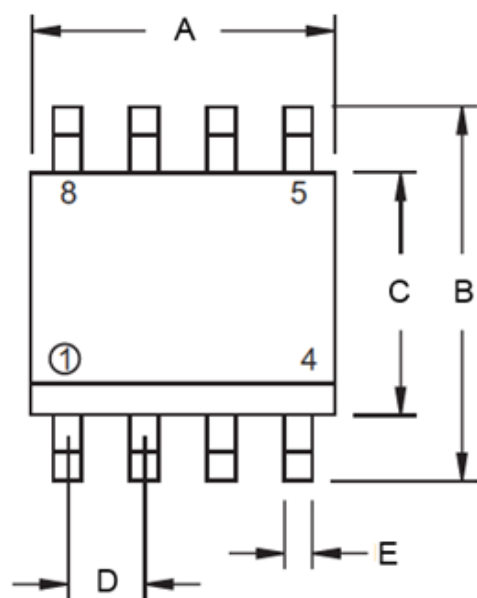


Figure2. Clamping waveform of negative 8KV ESD contact

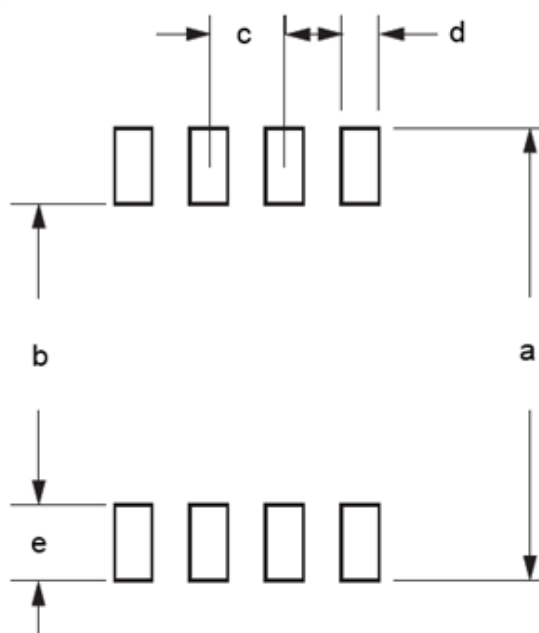
DEVICE OUTLINE

<i>Outline Dimension</i>				
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