
Small Package Uni-directional TVS for ESD Protection

Compliance Standard

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

Applications

- ◆ Networking
- ◆ Embedded System
- ◆ Handheld Device
- ◆ Computer

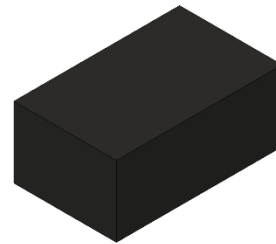
Features

- ◆ 150W Peak Pulse Power
- ◆ Low Clamping Voltage
- ◆ Low Leakage Current
- ◆ Single Line, Uni-Directional

Mechanical Characteristics

- ◆ DFN-1006 Package (0402)
- ◆ Weight 0.5 Milligram (Approximate)
- ◆ Flammability Rating UL94V-0
- ◆ Lead Free Plating
- ◆ Reel Size 7"
- ◆ 10000 PCS Per Reel

Package



DFN-1006

Pin Configuration



DEVICE CHARACTERISTICS

Maximum Rating			
Parameter	Symbol	Value	Unit
Peak Pulse Power	P _{PP}	150	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)
NLSDA36DN	PW	36.0	40.0	75.0	2.0	1.0	25.0



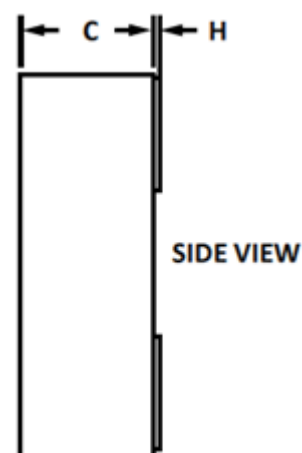
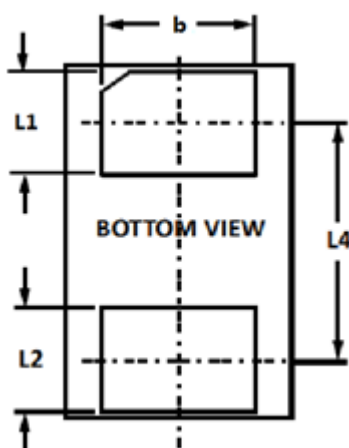
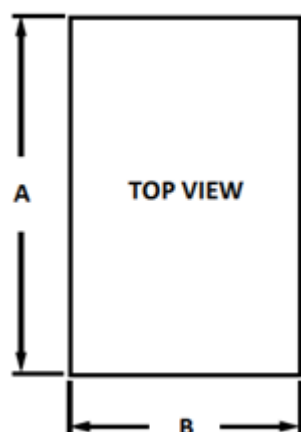
Figure1. Clamping waveform of positive 8KV ESD contact



Figure2. Clamping waveform of negative 8KV ESD contact

DEVICE OUTLINE

<i>Outline Dimension</i>				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	0.95	1.05	0.037	0.041
B	0.55	0.65	0.022	0.026
C	0.42	0.58	0.016	0.022
H	0.01	0.07	0.000	0.003
L1	0.275	0.325	0.011	0.013
L2	0.275	0.325	0.011	0.013
L4	0.675	0.725	0.027	0.029
b	0.45	0.55	0.017	0.021



LAYOUT PAD DIMENSION

<i>Layout PAD Dimension</i>				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	1.3	1.5	0.051	0.059
B	0.5	0.6	0.02	0.024
C	0.43	0.53	0.017	0.021



<i>Revision History</i>	<i>Description</i>
v2.0	Re-organize datasheet layout