
Small Package General Purpose TVS

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) 100.0 (8/20us)

Applications

- ◆ DC Power Application
- ◆ Embedded System
- ◆ Handheld Device
- ◆ Computer

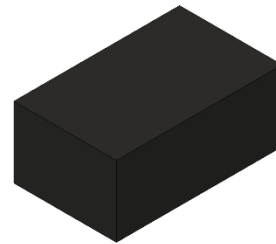
Features

- ◆ 1980W Peak Pulse Power
- ◆ Low Clamping Voltage
- ◆ Low Leakage Current
- ◆ Single Line, Uni-Directional

Mechanical Characteristics

- ◆ DFN-1610 Package (0603)
- ◆ Weight 3 Milligram (Approximate)
- ◆ Flammability Rating UL94V-0
- ◆ Lead Free Plating
- ◆ Reel Size 7"
- ◆ 3000 PCS Per Reel

Package



DFN-1610

Pin Configuration



DEVICE CHARACTERISTICS

Maximum Rating			
Parameter	Symbol	Value	Unit
Peak Pulse Power	P _{PP}	1980	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)
NLSD03TN	UT3	3.3	4.0	19.8	100.0	40.0	1200.0

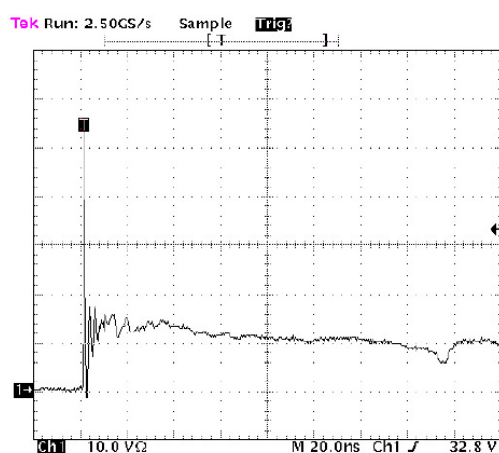


Figure1. Clamping waveform of positive 8KV ESD contact

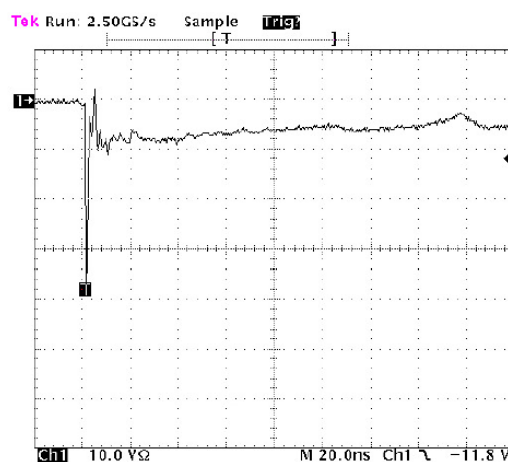


Figure2. Clamping waveform of negative 8KV ESD contact

DEVICE OUTLINE

<i>Outline Dimension</i>				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	1.55	1.65	0.061	0.065
B	0.95	1.05	0.037	0.041
C	0.40	0.50	0.015	0.020
H	0.02	0.05	0.000	0.002
L1	0.75	0.85	0.029	0.033
L2	0.35	0.45	0.013	0.018
L4	1.10TYP		1.10TYP	



LAYOUT PAD DIMENSION

<i>Layout PAD Dimension</i>				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	1.80	1.90	0.070	0.075
B	0.95	1.05	0.037	0.041
C	1.20	1.30	0.047	0.051



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