



## Product Overview

### NUP4016: ESD Protection Array, Ultra Low Capacitance, for High Speed Data Lines

For complete documentation, see the data sheet

#### Product Description

The NUP4016P5 transient voltage suppressor is designed to protect high speed data lines from ESD. Ultra-low capacitance and high level of ESD protection makes this device well suited for use in USB 2.0 applications.

#### Features

- Ultra-Low Capacitance (0.5 pF Typical Between I/O Lines and Ground)
- ESD Rating of Class 3B (Exceeding 8 kV) per Human Body model and Class C (Exceeding 400 V) per Machine Model
- Protection for the Following IEC Standards: IEC61000-4-2 15kV (contact)
- UL Flammability Rating of 94 V-0
- This is Pb-Free Device

#### Applications

- High Speed Communication Line Protection
- USB 2.0 High Speed Data Line and Power Line Protection
- Gigabit Ethernet

#### End Products

- Monitors and Flat Panel Displays
- MP3

#### Part Electrical Specifications

Product	Compliance	Status	Interface	Number of Lines	Direction	C Max (pF)	$V_{(BR)}$ Min (V)	$V_{RWM}$ Max (V)	$I_R$ Max (μA)	$P_{PK}$ Max (W)	Package Type
NUP4016P5T5G	Pb-free Halide free	Active	Ethernet (10/100, Gigabit) HDMI 1.2 MIPI USB 2.0	4	Unidirectional	0.8	6	5	1	13.5	SOT-953
SZNUP4016P5T5G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Ethernet (10/100, Gigabit) HDMI 1.2 MIPI USB 2.0	4	Unidirectional	0.8	6	5	1	13.5	SOT-953

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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