



Product Overview

NUP3115UP: Transient Voltage Suppressor, Low Capacitance, for High Speed USB 2.0

For complete documentation, see the data sheet

Product Description

The three-line voltage transient suppressor array is designed to protect voltage-sensitive components that require ultra-low capacitance from ESD and transient voltage events. This device features a common anode design which protects three independent high speed data lines and a Vcc power line in a single six-lead UDFN low profile package. Excellent clamping capability, low capacitance, low leakage, and fast response time makes these parts ideal for ESD protection on designs where board space is at a premium. Because of its low capacitance, it is suited for use in high frequency designs such as USB 2.0 high speed.

Features

- Low Capacitance Data Lines (0.8pF Typical between I/O and GND)
- Protects up to Three Data Lines Plus a Vcc Pin
- UDFN Package, 1.6 x 1.6mm
- Low Profile of 0.50mm for Ultra Slim Design
- ESD Rating: IEC6100042: Level, Contact (8kV)
- Vcc Pin = 15 V Protection
- D1, D2, and D3 Pins = 6.4 V Minimum Protection
- This is a Pb-Free Device

Benefits

- Suited for use in high frequency designs

Applications

- USB 2.0 High-Speed Interface
- SIM Card Protection

End Products

- Cell Phones
- MP3 Players

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 (uA)	P _{PK} Max (W)	Package Type
NUP3115UPMUTAG	Pb-free Halide free	Active	USB 2.0	4	Bidirectional	1	6.4	5.5	1	294.4	UDFN-6

For more information please contact your local sales support at www.onsemi.com

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