



Product Overview

NUP4114: Sub-1.0 pF ESD Array

[For complete documentation, see the data sheet](#)

Product Description

The NUP4114 transient voltage suppressor is designed to protect high speed data lines from ESD. Ultra-low capacitance and a high level of ESD protection make this device well suited for use in USB 2.0 high speed applications, and HDMI & DVI applications.

Features

- Low Clamping Voltage
- Small Body Outline Dimensions on SC88 Package: 0.082 x 0.078 (2.10 mm x 1.25 mm)
- Low Body Height: 0.043 (1.10 mm)
- Standoff Voltage: 5.5 V
- Low Leakage
- Response Time is Typically < 1.0 ns
- IEC6100042 Level 4 ESD Protection
- These Devices are PbFree and are RoHS Compliant
- AECQ101 Qualified and PPAP Capable for SZNUP4114
- Meets UL 94 V-0

Applications

- LVDS
- USB 2.0
- HDMI
- Display Port

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
NUP4114HMR6T1G	Pb-free Halide free	Active	DVI HDMI 1.2 HDMI 1.3/1.4 USB 2.0	4	Unidirectional	1	6	5	1	-	TSOP-6
NUP4114UCLW1T2G	AEC Qualified Pb-free Halide free	Active	DVI HDMI 1.2 HDMI 1.3/1.4 USB 2.0	4	Unidirectional	0.3	6	5.5	1	-	SC-88-6 / SC-70-6 / SOT-363-6
NUP4114UCW1T2G	AEC Qualified Pb-free Halide free	Active	DVI HDMI 1.2 HDMI 1.3/1.4 USB 2.0	4	Unidirectional	1	6	5.5	1	-	SC-88-6 / SC-70-6 / SOT-363-6
NUP4114UPXV6T1G	Pb-free Halide free	Active	DVI HDMI 1.2 HDMI 1.3/1.4 USB 2.0	4	Unidirectional	1	6	5	1	-	SOT-563
SZNUP4114HMR6T1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	DVI HDMI 1.2 HDMI 1.3/1.4 USB 2.0	4	Unidirectional	0.3	6	5	1	-	TSOP-6
SZNUP4114UCLW1T2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	DVI HDMI 1.2 HDMI 1.3/1.4 USB 2.0	4	Unidirectional	0.3	6	5.5	1	-	SC-88-6 / SC-70-6 / SOT-363-6

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

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