



Product Overview

NUP2114: ESD Protection Array

For complete documentation, see the data sheet

Product Description

The NUP2114 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 high speed applications.

Features

- Low Capacitance 0.8 pF
- AECQ101 Qualified and PPAP Capable SNUP2114
- Low Clamping Voltage
- Stand Off Voltage: 5 V
- Low Leakage
- 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:
IEC 6100042 Level 4 ESD Protection
- UL Flammability Rating of 94 V0
- This is a PbFree Device
- S prefix for automotive and other applications requiring unique site and control change requirements

Applications

- High Speed Communication Line Protection
- USB 2.0 High Speed Data Line and Power Line Protection
- MP3, Gigabit Ethernet, Notebook Computers, Digital Video Interface (DVI) and HDMI.
- Monitors and Flat Panel Displays

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
NUP2114UCMR6T1G	AEC Qualified Pb-free Halide free	Active	DVI HDMI 1.2 USB 2.0	2	Unidirectional	1	6	5	1	-	TSOP-6
NUP2114UPXV5T1G	Pb-free Halide free	Active	DVI HDMI 1.2 USB 2.0	2	Unidirectional	1	6	5	1	-	SOT-553
SNUP2114UCMR6T1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	DVI HDMI 1.2 USB 2.0	2	Unidirectional	1	6	5	1	-	TSOP-6

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

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