



Product Overview

NUP4301: Low Capacitance Diode Array for ESD Protection

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

Product Description

NUP4301MR6T1 is a micro-integrated device designed to provide protection for sensitive components from possible harmful electrical transients; for example, ESD (electrostatic discharge).

Features

- Low Capacitance (5 pF Maximum)
- Single Package Integration Design
- Provides ESD Protection for JEDEC Standards JESD22
Machine Model = Class C
Human Body Model = Class 3B
- Protection for IEC61000-4-2 (Level 4)
8.0 kV (Contact)
15 kV (Air)
- Ensures Data Line Speed and Integrity
- Fewer Components and Less Board Space
- Direct the Transient to Either Positive Side or to the Ground
- Pb-Free Package is Available
- AEC-Q101 Qualified and PPAP Capable
- SZ Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements

Applications

- USB 1.1 and 2.0 Data Line Protection
- T1/E1 Secondary IC Protection
- T3/E3 Secondary IC Protection
- HDSL, IDSL Secondary IC Protection
- Video Line Protection

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
NUP4301MR6T1G	AEC Qualified Pb-free Halide free	Active	USB 2.0	4	Bidirectional	3	70	-	2.5	-	SC-74
SZNUP4301MR6T1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	USB 2.0	4	Bidirectional	3	70	-	2.5	-	SC-74

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

Created on: 7/11/2015