



## Product Overview

### NUP1301: ESD Protection Low Capacitance Rail Clamp

For complete documentation, see the data sheet

#### Product Description

NUP1301ML3T1 is a integrated diode device designed to provide protection for sensitive components from possible harmful electrical transients; for example, ESD.

#### Features

- Low Capacitance
- Single Package Integration Design
- Provides ESD Protection for JEDEC Standards JESD22
- Protection for IEC61000-4-2 (Level 4)
- Ensures Data Line Speed and Integrity
- Fewer Components and Less Board Space
- Direct the Transient to Either Positive Side or to the Ground
- SZ Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements
- AEC-Q101 Qualified and PPAP Capable

#### Applications

- T1/E1 Secondary IC Protection
- T3/E3 Secondary IC Protection
- HDSDL, IDSL Secondary IC Protection
- Video Line Protection
- Microcontroller Input 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
NUP1301ML3T1G	AEC Qualified Pb-free Halide free	Active	T1/E1, T3/E3	1	Bidirectional	3	70	70	2.5	-	SOT-23-3
SZNUP1301ML3T1G	AEC Qualified PPAP Capable Pb-free Halide free	Active	T1/E1, T3/E3	1	Bidirectional	3	70	70	2.5	-	SOT-23-3

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

Created on: 7/11/2015