



## Product Overview

### ESDR0524P: ESD Protection Diode, Ultra Low Capacitance, Low Clamping Voltage

For complete documentation, see the data sheet

#### Product Description

The ESDR0524P transient voltage suppressor is designed to protect high speed data lines from ESD. Ultra-low capacitance and low ESD clamping voltage make this device an ideal solution for protecting voltage sensitive high speed data lines. The flow-through style package allows for easy PCB layout and matched trace lengths necessary to maintain consistent impedance between high speed differential lines such as HDMI.

#### Features

- Low Capacitance (0.3 pF Typical, I/O to I/O)
- ESD Rating of Class 3B (exceeding 8kV) per Human Body Model, and Class C (exceeding 400V) per Machine Model
- Protection for IEC Standards: IEC 6100-4-2 (12kV Contact)
- UL Flammability Rating of 94 V-0
- This is a Pb-Free device

#### Applications

- HDMI
- Digital Video Interface (DVI)
- eSATA

#### End Products

- Digital TV
- Set Top Box
- Gaming Device
- DVD

#### 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
ESDR0524PMUTAG	AEC Qualified Pb-free Halide free	Active	DVI Display Port HDMI 1.3/1.4 eSATA 2.0	4	Unidirectional	0.4	6	5	1	11.1	UDFN-10

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

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