

Product Overview

ESDL2011: High Speed Data Line Protection, Bidirectional (1 V – Thunderbolt 3.0), 0.2 pF

For complete documentation, see the data sheet.

The ESDL2011 is designed to protect voltage sensitive components that require low capacitance from ESD and transient voltage events. Excellent clamping capability, low capacitance, low leakage, and fast response time, make these parts ideal for ESD protection on designs where board space is at a premium. Because of its low capacitance, the part is well suited for use in high speed data line applications.

Features

- Low Capacitance 0.17 pF (Typ)
- Low Clamping Voltage
- Small Body Outline Dimensions: 0.60 mm x 0.30 mm
- Low Body Height: 0.2 mm
- Stand-off Voltage: 1.0 V
- IEC61000-4-2 Level 4 ESD Protection
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

Applications

- USB 3.x Tx/Rx Data Line Pairs
- Thunderbolt 3.0 Data Line Pairs

End Products

- Laptops
- Tablets
- Desktops
- Smartphones
- Wearables

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 (μA)	P _(PK) Max (W)	Package Type
ESDL2011PFCT5G	Pb-free	Active	USB 3.0	1	Bidirectional	0.2	1.4	1	0.5	-	DSN-2
	Halide free		USB 3.1								
			Thunderbolt								

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

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