Product Overview

FSUSB242: USB Type-C Port Protection Switch

For complete documentation, see the data sheet.

The FSUSB242 is a switch that provides high voltage and surge protection for the HSD+/HSD- lines. Surge is an increasing concern for small form factor connectors such USB microB and USB Type-C™. This product will provide 2:1 switching while maintaining sufficient signal integrity so the USB 2.0 HS eye diagram can still be passed.

Features

- Fully USB Data Port Protection
- VDD 0 V- 5.5 V (12 V DC tolerant)
- ±20 V DC Tolerance on HSD± Port
- ±26 V IEC 64000-4-5 Surge Protection w/o External TVS
- VDD Operating Range, 2.7 V-5.5 V
- HSD RON: 5Ω   Typical
- CON = 5 pF Typical
- Wide -3 dB Bandwidth: > 720 MHz
- Low Power Operation: ICC < 10 µA (Typical)
- Over Voltage Protection: 3.6 V & 4.5 V
    For more features, see the data sheet

Applications

- USB Type-C™ ports
- USB microB ports

End Products

- Smartphones
- Tablets
- Laptops

Part Electrical Specifications

Product	Compliance	Status	Channels	Number of Switches	Configuration	I_{cc} Max (µA)	r_{on} Max (Ω)	V_{CC} Min (V)	V_{CC} Max (V)	Package Type
FSUSB242UCX	Pb-free Halide free	Active	2	4	DPDT	-	-	2.7	12	WLCSP-9

For more information please contact your local sales support at www.onsemi.com.
Created on: 9/19/2018