

## 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 as 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)
- $\pm 20$  V DC Tolerance on HSD $\pm$  Port
- $\pm 26$  V IEC 64000-4-5 Surge Protection w/o External TVS
- VDD Operating Range, 2.7 V-5.5 V
- HSD RON: 5 $\Omega$  Typical
- CON = 5 pF Typical
- Wide -3 dB Bandwidth: > 720 MHz
- Low Power Operation: ICC < 10  $\mu$ A (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	Pricing (\$/Unit)	Compliance	Status	Channels	Number of Switches	Configuration	I <sub>cc</sub> Max ( $\mu$ A)	r <sub>on</sub> Max ( $\Omega$ )	V <sub>cc</sub> Min (V)	V <sub>cc</sub> Max (V)	Package Type
FSUSB242UCX	0.184	Pb-free Halide free non AEC-Q and PPAP	Active	2	4	DPDT	-	-	2.7	12	WLCSP-9

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

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