

Product Overview

FUSB252: High Speed Digital (HSD) Port Protection Switch with Type-C CC

For complete documentation, see the data sheet.

The FUSB252 is an integrated port protection switch for USB Type-C applications. This product will protect HSD+/- and CCx pins when stressed with voltages up to 20 V. Over-Voltage Protection (OVP) at 5.8 V typical will protect the system for Electrical Overstress (EOS) damage. With a fully integrated USB 2.0 switch for HSD+/-, this product can be easily integrated into existing solutions. The HSD switches can pass USB 2.0 signals with bandwidth 1 GHz to maintain signal integrity and eye compliance. The CC switches have very low RON of 0.3 Ω to minimize signal attenuation. The FUSB252 also provides Dead Battery support per the Type-C specification. Additional features include Under-Voltage Lockout (UVLO) and thermal shutdown.

Features

- Full Type-C Port Protection
- Supports USB Type-C™ Specification 1.3
- VCC 0 V- 5.5 V
- 20 V DC Protection on VCC
- 16 V DC protection on HSD Port
- VDD Operating Range, 2.7 V- 5.5 V
- Current Capability: 1 A
- CC RON: 0.3 Ω Typical
- HSD RON: 5 Ω Typical
- Wide -3 db Bandwidth: 1 GHz

For more features, see the data sheet

Applications

- This product is general usage and suitable for many different applications.

Part Electrical Specifications							
Product	Pricing (\$/Unit)	Compliance	Status	Mode Support	Power Delivery Communication Support	IC Features	Package Type
FUSB252UMX	0.3733	Pb-free Halide free non AEC-Q and PPAP	Active	DFP (Source)	Yes	Thermal shutdown Under-Voltage Lockout (UVLO)	UQFN-16

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

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