



FUSB3301 — Product Brief

USB Type-C Controller for Mobile Chargers and Power Adapters

Features

- Fully Autonomous Type-C Controller Supports Type-C Version 1.1
- Fixed Source Mode
- VBUS Switch Control
- Advertises Three Standard Type-C VBUS Current Levels (900 mA, 1.5 A, 3.0 A)
- 2 kV HBM ESD Protection
- 10 Lead MLP Package
- V_{DD} Operating Range, 3.0 V - 5.5 V

Description

The FUSB3301 is an autonomous Source only Type-C controller optimized for mobile chargers and power adapters. It broadcasts the available current of the charger over CC1/CC2 using the USB Type-C standard and prevents VBUS from being asserted until a valid connection has been verified. It can be used for up to 16.5 W charging using Type-C protocols.

Applications

- USB Type-C Power Ports
- Mobile Chargers
- Power Adapters
- AC-DC Adapters

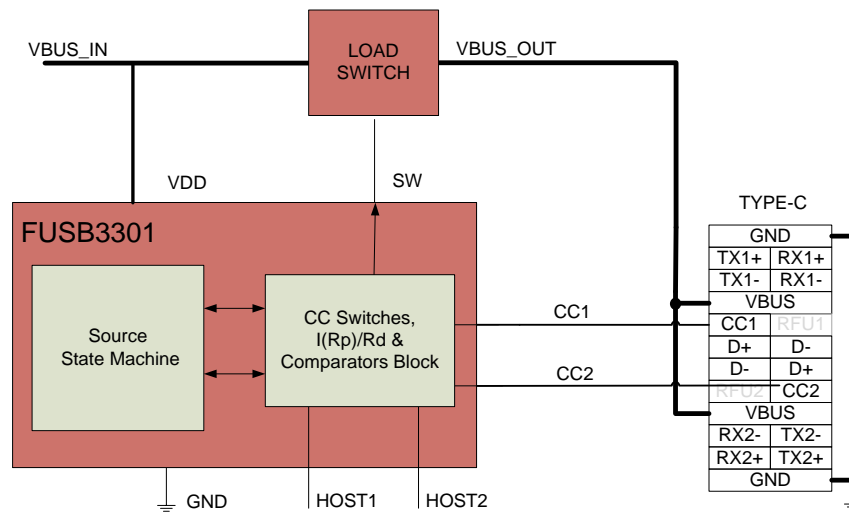


Figure 1. Block Diagram

Ordering Information

Part Number	Operating Temperature Range	Package	Packing Method
FUSB3301MPX	-40 to 85°C	10-Lead, MLP, 3 mm x 3 mm	Tape and Reel

PRELIMINARY INFORMATION

Pin Descriptions

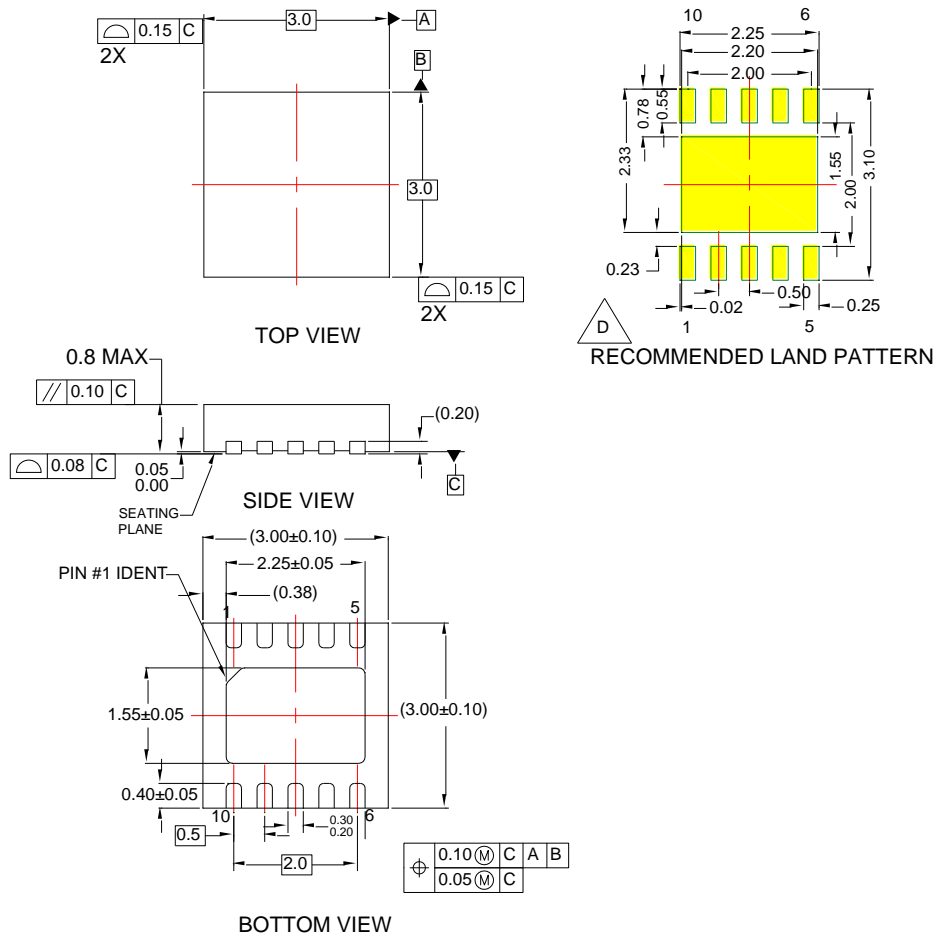
Name	Type	Description
CC1	Input/Output	Type-C Configuration Channel
CC2	Input/Output	Type-C Configuration Channel
NC1 ⁽¹⁾	NC	No Connect
NC2 ⁽¹⁾	NC	No Connect
NC3 ⁽¹⁾	NC	No Connect
HOST1	Input	Host Current Select Pin with Internal Pull-up
HOST2	Input	Host Current Select Pin with Internal Pull-up
SW	Output	Open Drain output to control the VBUS load switch
GND	Power	Ground
VDD	Power	Power Supply

Note:


1. No connect pins can float or can be tied to ground.

PRELIMINARY INFORMATION

Physical Dimensions



NOTES:

- A. CONFORMS TO JEDEC REGISTRATION MO-229, VARIATION WEED-5
- B. DIMENSIONS ARE IN MILLIMETERS.
- C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 1994
-  LAND PATTERN DIMENSIONS ARE NOMINAL REFERENCE VALUES ONLY

MLP10BrevA

Figure 2. 10 Lead, MLP, Dual, 3 mm x 3 mm



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