

FEATURES

- USB type-C 2.1 and USB PD3.1 Compliant
 - Support 5 V, 9 V, 12 V, 15 V and 20 V FPDs
 - Support 2 programmable APDOs
- As low as 5 mA light load detection
- Integrated VBUS Power Path Switch
- Multiple cable compensation options
- Integrated OVP, UVP, UVLO, OCP, FOCP, CC OVP, OTP protections
- ESSOP-10L and SSOP-10L package
- ± 2 kV HBM ESD rating for USB IO pins

APPLICATIONS

Adaptor

Car charger

GENERAL DESCRIPTION

The **HUSB381** is a high performance, high integration USB Type-C Port controller.

The **HUSB381** is a USB PD3.1 controller which supporting 5 FPDs and 2 APDOs with programmable current and voltage.

The **HUSB381** integrates an internal N-MOSFET to enable the VBUS from VIN to protect the devices connected with VBUS.

The **HUSB381** integrates all of required protections such as Over Voltage Protection (OVP), Under Voltage Protection (UVP), Under Voltage Lockout (UVLO), Over Current Protection (OCP), Fast Over Current Protection (FOCP), CC Over Voltage Protection (Port OVP) and Over Temperature Protection (OTP).

It is ESSOP-10L and SSOP-10L package.

TYPICAL APPLICATION CIRCUIT

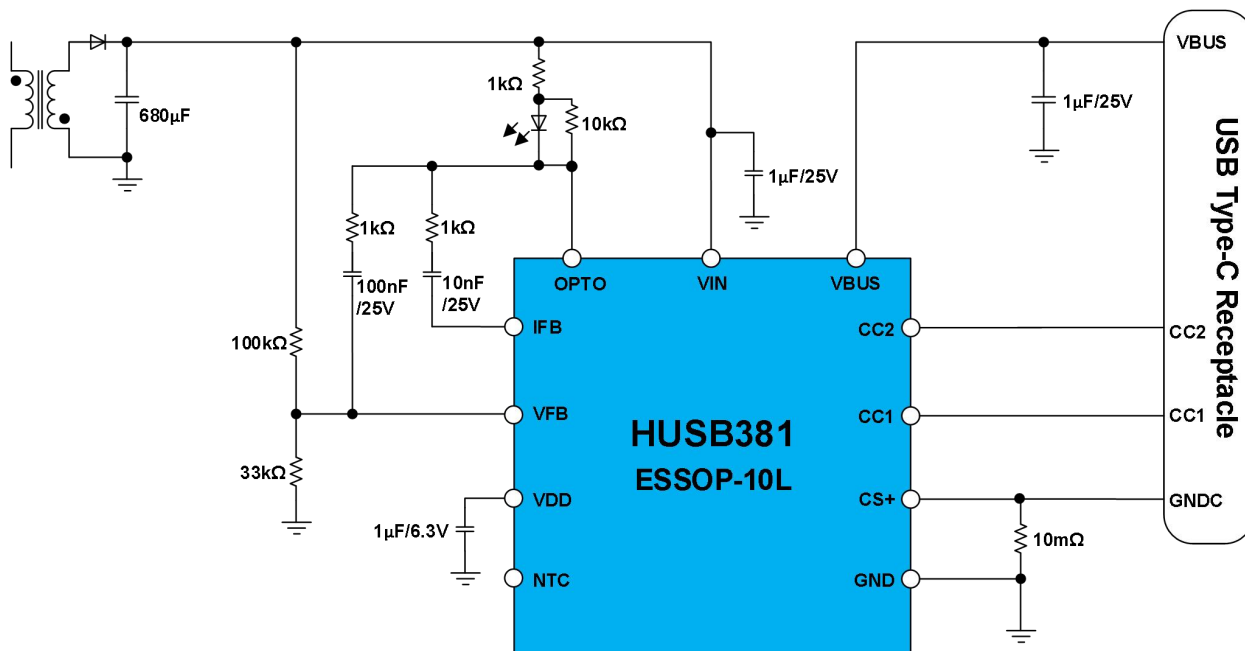


Figure 1. Typical Application Circuit