

FEATURES

- USB-IF certified TID:10190
- USB Type-C 2.1 and USB PD3.1 Source
 - Support 5 FPDOs with Programmable Voltage and Current
 - Support 2 APDOs with Programmable Voltage and Current
- Support BC1.2 DCP and HVDCP Protocols
 - BC1.2 DCP Mode
 - Divider 3 Mode
 - QC2.0/3.0 Class A
 - AFC, FCP and SCP
- Integrated low Rdson N-MOSFET
- Support Constant Voltage Loop (CV) and Constant Current Loop (CC) Operation
- Accurate Constant Power Limit
- Additional 8 Power Levels Configured by PS0, PS1 Pins
- Integrated OVP, UVP, UVLO, OCP, FOCV and TSD Protections

- Package: QFN4x4-32L

- ± 5 kV HBM ESD Rating for D+, D-, CC1, CC2

APPLICATIONS

AC-DC Power Adaptor
Car Charger

GENERAL DESCRIPTION

The **HUSB380** is a high performance, high integration USB Type-C Power Delivery source controller. It integrates an ultra-low conduction resistance N-channel MOSFET. The **HUSB380** supports PD2.0, PD3.0, PPS, QC2.0/3.0, Divider 3, BC1.2 DCP, AFC, FCP and SCP protocols. It supports up to 5 FPDOs with programmable voltage and current and 2 APDOs which are fully compliant with USB Power Delivery Specification Revision 3.1, version 1.0.

The **HUSB380** integrates all of required protections such as Over Voltage Protection (OVP), Under Voltage Protection (UVP), Under Voltage Lock Out (UVLO), Over Current Protection (OCP), Fast Over Current Protection (FOCP) and Thermal Shut Down (TSD).

It is available in QFN-32L, 4 mm x 4 mm package.

TYPICAL APPLICATION CIRCUIT

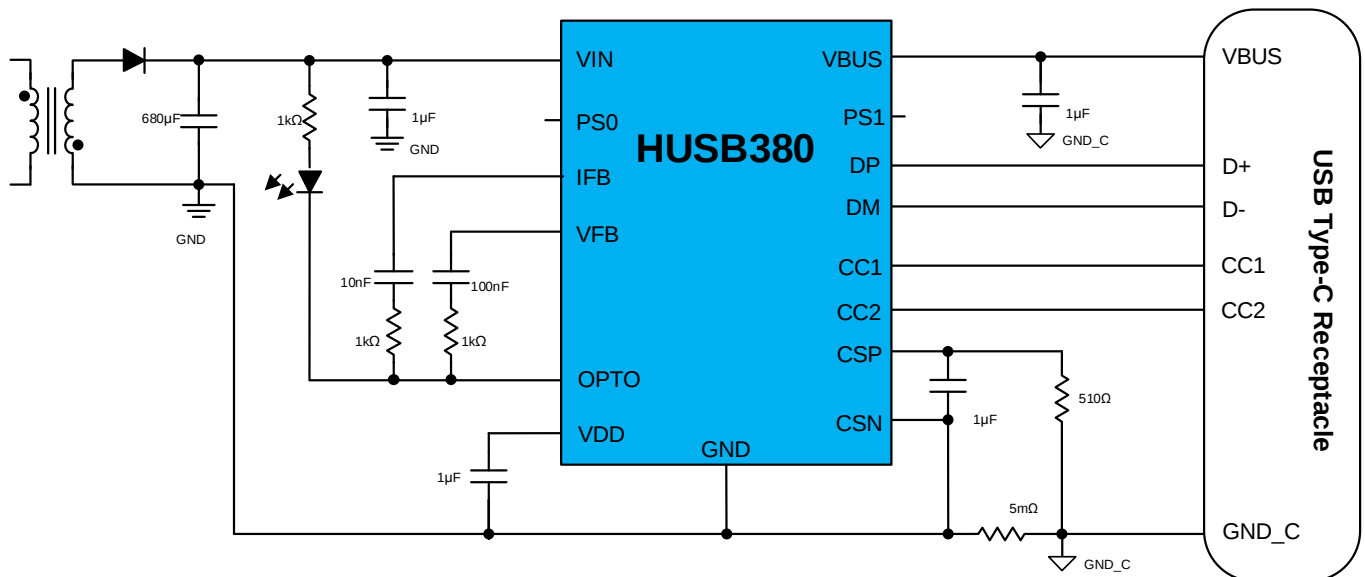


Figure 1. Typical Application Circuit