

### FEATURES

- USB Type-C 2.1 and USB PD3.1 Compliant
  - Support 5 V, 9 V, 12 V, 15 V, 20 V FPDOS
  - Support 2 programmable APDOs
- Support BC1.2 DCP and HVDACP Protocols
  - BC 1.2 DCP mode
  - Apple 5 V 2.4 A mode
  - QC2.0/3.0
  - AFC, FCP and LVSCP/HVSCP
- Integrated VBUS Power Path Switch
- Support Constant Voltage Loop(CV) and Constant Current loop(CC) Operation
- Multiple Cable Compensation Options
- Integrated OVP, UVP, UVLO, OCP, FOCF and TSD Protections
- eSSOP-10L package
- $\pm 2$  kV HBM ESD Rating for USB IO Pins

### APPLICATIONS

Power Adaptors

### GENERAL DESCRIPTION

The **HUSB380A** is designed for a USB type C PD product. It can support 5 FPDOS with programmable voltage and current for different applications and 2 APDOs for PPS options. All of PDOs are fully compliant with PD3.1 Rev.1.8 specs.

Besides, the **HUSB380A** supports multiple legacy protocols including QC2.0, QC3.0, AFC, FCP, SCP and Divider 3 mode which provide excellent compatibility for the legacy devices.

It integrates an N-MOSFET to enable the power path from VBUS to VIN. Once there is any fault triggered, the **HUSB380A** can turn off the power path and protect the connected device.

Only 0.5 mA operation current is needed for the **HUSB380A**.

It is available in eSSOP-10L package.

### TYPICAL APPLICATION CIRCUIT

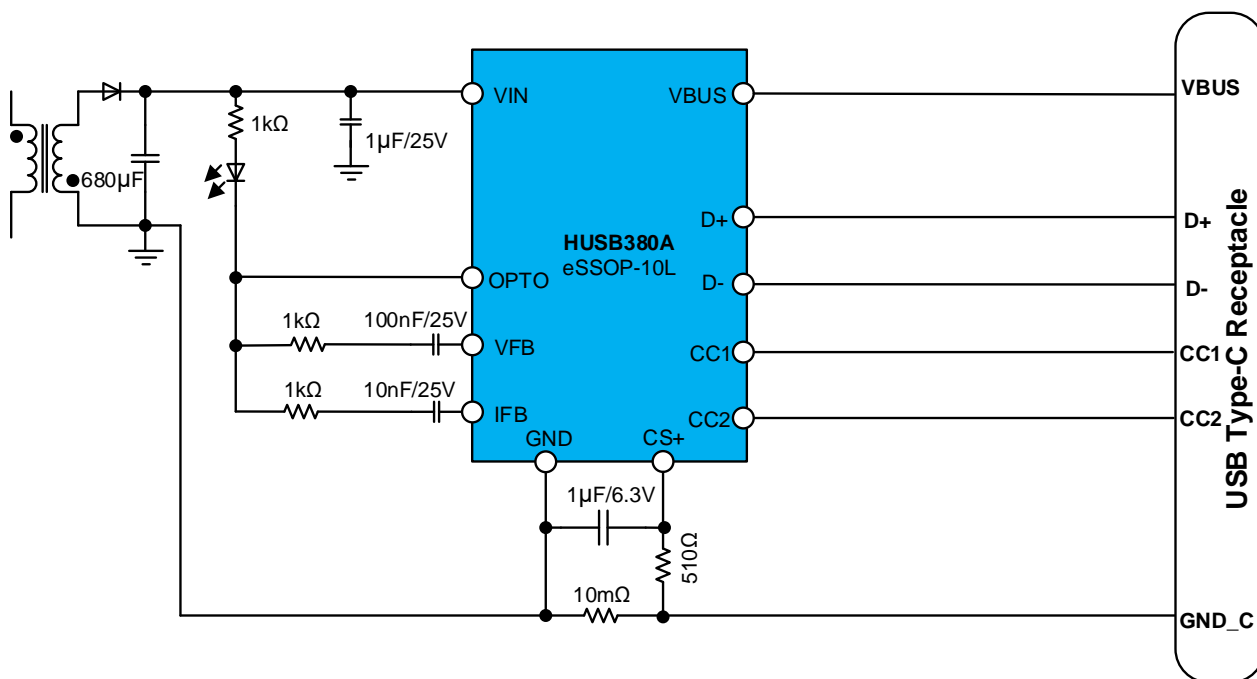


Figure 1. Typical Application Circuit