

FEATURES

- USB PD2.0 certified, TID 1000151, XID 0005398
- USB PD3.0 certified, TID 1000189, XID 0005399
- HUSB338A_A00B for wall charger application
 - PD3.0 5V3A, 9V2A, 12V1.5A three FPDOs
 - QC2.0 and QC2.0
 - BC1.2 DCP
- HUSB338A_B00B for car charger application
 - PD3.0 5V3A, 9V2A two FPDOs
 - BC1.2 DCP
- Integrate voltage loop compensation and current loop compensation
 - Integrate secondary side compensation circuit, such as TL431
- VBUS and VIN pins fast discharge
- Voltage operating range: 3.3V to 20V
- Low power consumption - 250μA
- Cable voltage drop compensation – 100mV/A
- CC pin support 20V high voltage to protect the CC pin and VBUSs pin short risk

- Support constant voltage loop (CV) and constant current loop (CC)
- OTP, VIN OVP, VIN UVP, VIN UVLO and OCP protections
- QFN-16L packages
- ±5kV ESD HBM

APPLICATIONS

- AC-DC power adapter
- Car charger
- USB-PD converter

GENERAL DESCRIPTION

HUSB338A is a high performance, high integration USB Type-C Power Delivery source controller. HUSB338A supports PD3.0, PD2.0, QC2.0/3.0, BC1.2 DCP etc. The HUSB338A incorporates all required protections, like Over-temperature Protection (OTP), Over-voltage Protection (OVP), Under-voltage Protection (UVP), and Under-voltage Lock-Out (UVLO). It is available in QFN-16L package.

TYPICAL APPLICATION CIRCUIT

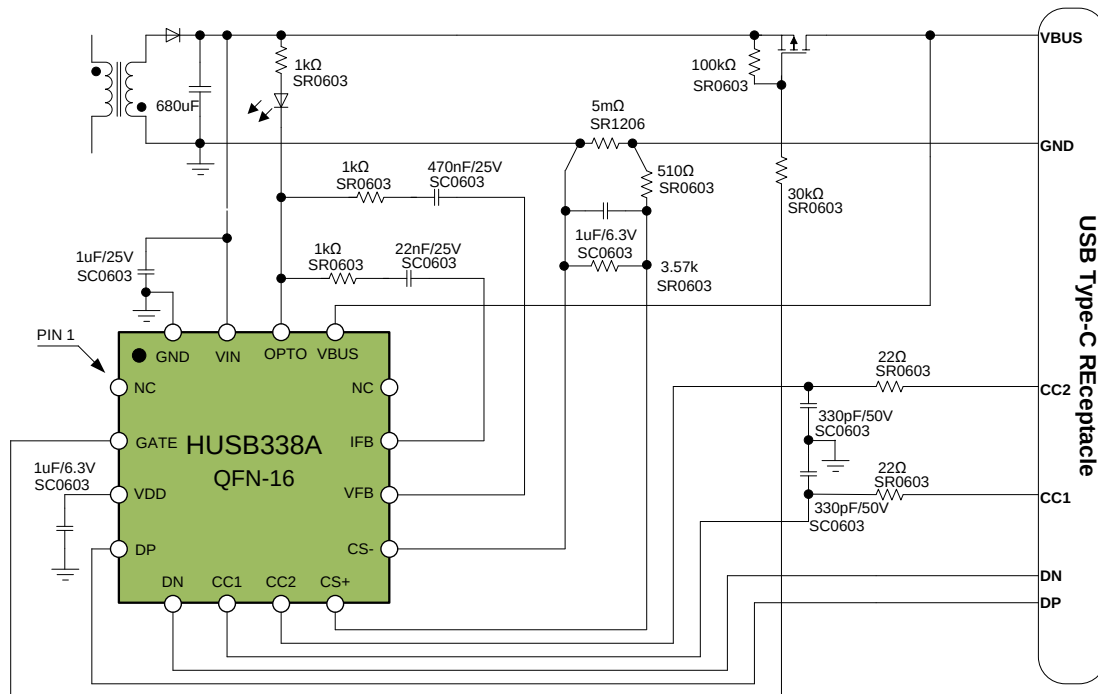


Figure 1. HUSB338A Typical Application Circuit