

FEATURES

- USB PD3.0 certified, TID 62
- USB Type-C 1.2 and USB PD3.0 compliant
- HUSB339A_A000B:
 - PD3.0 5V3A, 9V2A, 12V1.5A three FPDOS
 - QC2.0 and QC2.0
 - BC1.2 DCP
- HUSB339A_B000B:
 - PD3.0 5V3A, 9V2A two FPDOS
 - BC1.2 DCP
- Integrate constant voltage (CV) loop compensation and constant current (CC) loop compensation network
 - Integrate secondary side compensation circuit, such as TL431
- VBUS and VIN pins fast discharge
- Voltage operating range: 3.3V to 12V
- Support cable voltage drop compensation -100mΩ

- OTP, VIN OVP, VIN UVP, VIN UVLO and OCP protections
- CC pin support 20V high voltage to protect the CC pin and VBUSs pin short risk
- QFN-16L packages
- ±5kV ESD HBM

APPLICATIONS

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

GENERAL DESCRIPTION

The **HUSB339A** is a high performance, high-integrated USB Type-C Power Delivery source controller. The HUSB339A supports PD3.0, PD2.0, PPS, QC2.0/QC3.0, BC1.2 DCP etc. The HUSB339A incorporates all required protections, like Over-temperature Protection (OTP), Over-voltage Protection (OVP), Under-voltage Protection (UVP), and Under-voltage Lock-Out (UVLO). The HUSB339A supports smart power derating function for dual-port charger applications. It is available in QFN-16L package option.

TYPICAL APPLICATION CIRCUIT

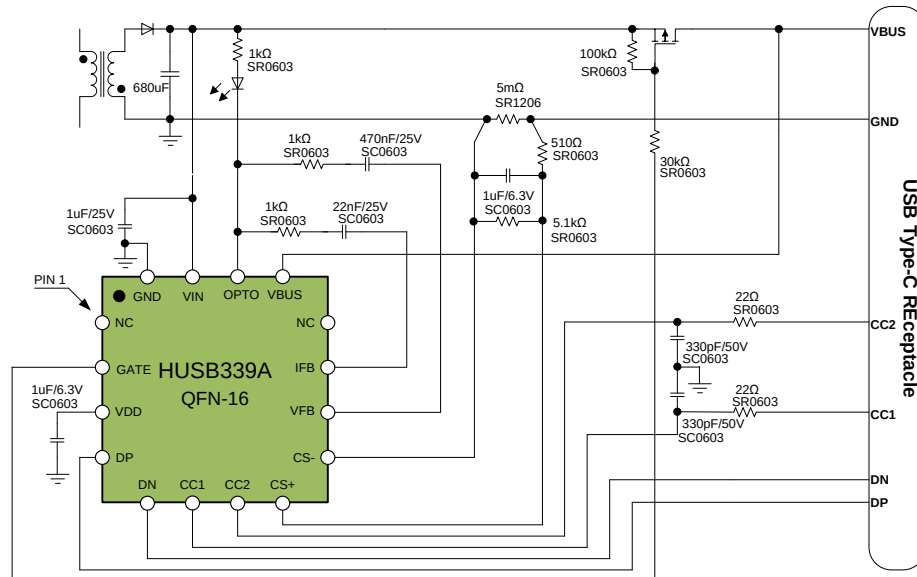


Figure 1. HUSB339A Typical Application Circuit