

FEATURES

- USB PD2.0 certified, TID 1000151, XID 0005398
- USB PD3.0 certified, TID 1000189, XID 0005399
- USB Type-C 1.2 and USB PD2.0/3.0 compliant
 - Support up to 5V, 9V, 12V and 15V four FPDOs.
 - Support one PPS APDO. Voltage adjustable in 20mV step. Current adjustable in 50mV step
- Support BC1.2 DCP and HVDCC fast charge protocols
 - BC1.2 DCP mode
 - 5V, 9V and 12V discrete mode voltage adjustment
 - 3.6V ~ 12V continuous mode voltage adjustment at 200mV step
- Integrate voltage I 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
- 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)
- Integrated VCONN power and eMarker detection
- OTP, VIN OVP, VIN UVP, VIN UVLO and OCP protections
- SOP-14L, QFN-16L and SSOP-10L packages
- ±5kV ESD HBM

APPLICATIONS

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

GENERAL DESCRIPTION

HUSB338L is a high performance, high integration USB Type-C Power Delivery source controller. HUSB338L supports PD3.0, PD2.0, PPS, QC2.0/3.0, BC1.2 DCP etc. The HUSB338 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 SOP-14L, QFN-16L and SSOP-10L package options.

TYPICAL APPLICATION CIRCUIT

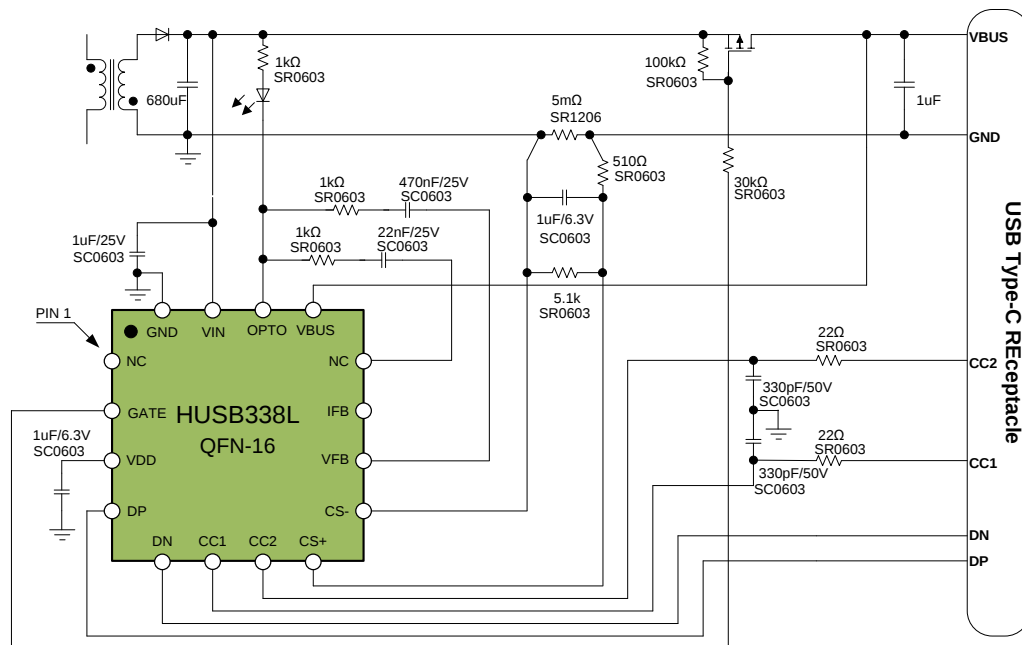


Figure 1. HUSB338L Typical Application Circuit