

### FEATURES

- USB PD 3.0 Compliant
  - Supports SOP' Communication
  - Integrated Transceiver (BMC PHY)
  - Supports Both Structured VDM Version 1.0 and 2.x
- Package Options:
  - SOT23-3L
  - TSOT23-3L
  - DFN1.6x1.6-4L
- 0.11 mA Ultra-Low Power Consumption
- Supports 4.25 V ~ 40 V Operation on VBUS Pin
- 44 V High Voltage Tolerance on CC and VBUS Pins
- Fixed High Current Rating Cable:
  - PD 3.0 100 W and USB2 data Communication
- $\pm 6$  kV HBM ESD Protection on CC and VBUS Pins

### APPLICATIONS

USB Type-C Cable ID

### GENERAL DESCRIPTION

The **HUSB332F** is a USB Type-C eMarker for Cable ID applications. It is compliant to USB Power Delivery 3.0.

The **HUSB332F** provides an extremely cost-effective solution for a USB type-C cable. Powered from VBUS directly could help the user to save the VCONN wire in the cable.

With the SOT23-3L package, it could help the designer to design the paddle card easily. The **HUSB332F** applied to cables with a fixed power of 100 W.

The enhanced  $\pm 6$  kV HBM ESD protection on the exposed pins can improve the system reliability significantly. The **HUSB332F** operates over a wide supply range of 4.25 V to 40 V. It is available in SOT23-3L, TSOT23-3L and DFN1.6x1.6-4L packages. It is rated over the  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  temperature range.

### TYPICAL APPLICATION CIRCUIT

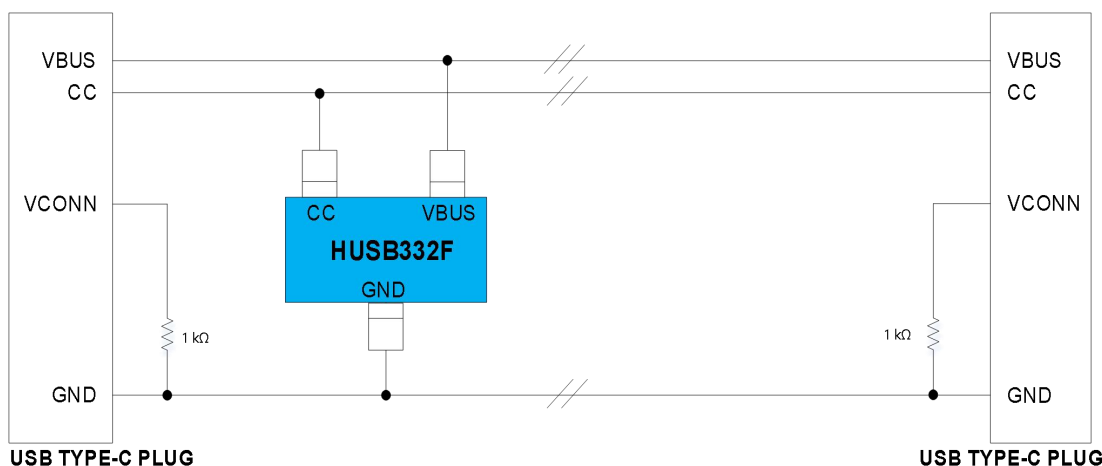


Figure 1. HUSB332F-AA001-ST03R Typical Application Circuit