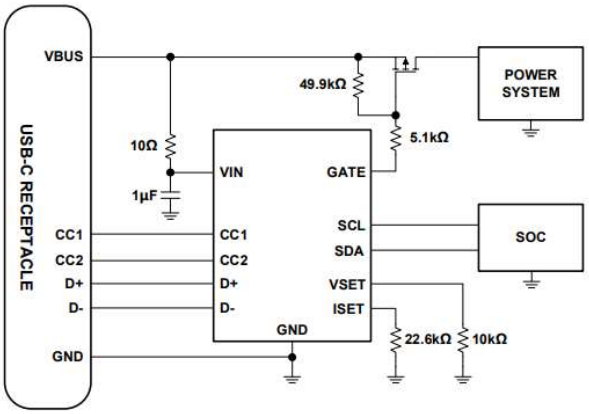
# 一、TCS8330概述

TCS8330支持PD3.0， Type-C V1.4， Apple Divider 3, BC1.2 SDP, DCP and CDP SINK通讯协议；宽工作电压范围：3V-25V；VBUS 耐压30V, CC脚位耐压25V；采用DFN10_3mmX3mm 封装。

# 二、典型电路图及脚位说明




备注：上图电路的PMOS可以省掉，VBUS可以和后端电路直通

## PIN CONFIGURATION AND FUNCTION DESCRIPTIONS

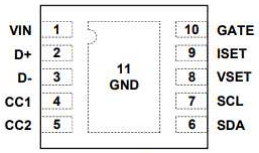



*Figure 2. Pin Configuration (Top View)*

**Table 1. Pin Function Descriptions**

| Pin No. | Pin Name | Type[1] | Description |
|---|---|---|---|
| 1 | VIN | P | Power supply input. Connect this pin to VBUS of USB Type-C connector and bias this pin via a 1μF ceramic capacitor. |
| 2 | D+ | DIO | Positive line of USB 2.0 data line for Apple Divider 3 and BC1.2. |
| 3 | D- | DIO | Negative line of USB 2.0 data line for Apple Divider 3 and BC1.2. |
| 4 | CC1 | AIO | Configuration line 1 used to negotiate a voltage/current with the attached adapter. |
| 5 | CC2 | AIO | Configuration line 2 used to negotiate a voltage/current with the attached adapter. |
| 6 | SDA | DIO | I²C communication data signal. |
| 7 | SCL | DIO | I²C communication clock signal. |
| 8 | VSET | AI | Connect a resistor to indicate the maximum voltage needed by the system from the attached power adapter. |
| 9 | ISET | AI | Connect a resistor to indicate the maximum current needed by the system from the attached power adapter. |
| 10 | GATE | OD | Open drain gate driver output. Connect this signal to the gate of an external PMOS through a series resistor. Leave this pin open if not used. |
| 11 | GND | P | Ground reference. All signals are referred to this pin. |

# 三、选取电压与Rvset取值

| $R_{VSET}$ (kΩ) | VSET_VOLTAGE (V) |
|---|---|
| 0 | 5 |
| 6.04 | 9 |
| 10 | 12 |
| 14 | 15 |
| 17.8 | 18 |
| Open | 20 |