
Wireless Power Transmitter Controller CP8051A

1. Description

CP8051A is a high-integrated solution for Qi Compliant Wireless Power Transmitter Controller. It is integrated communication demodulation circuit. Several protection approaches are included to avoid system run into abnormal condition such as overcurrent, low voltage, thermal protection, and offset protection. CP8051A can provides an application circuit for wearable application. For wearable applications, PWM directly driver MOSFET is featured.

2. Features

- Compatible with Qi 1.2.4
- 5V DC for CP8051A Power supply
- High performance at communication demodulation. The demodulation circuit is built in
- Status Indicators for
 - ✓ Charging
 - ✓ Charge completed
 - ✓ Error (Transmitter over current , Qi standard error message)
 - ✓ Standby
- Auto detecting the object put-on and removal
- Over current protection.
- Over Voltage Protection
- Learning function when the coil is changed.
- Package: 20TSSOP
- Low Power Supply Consumption
- Support a dedicated receiver

3. Applications

- Wearable product
- Cell Phone, Smart Phone
- Hand-held Device
- Portable Products (Audio, Media, Headsets)

10. Application Schematics

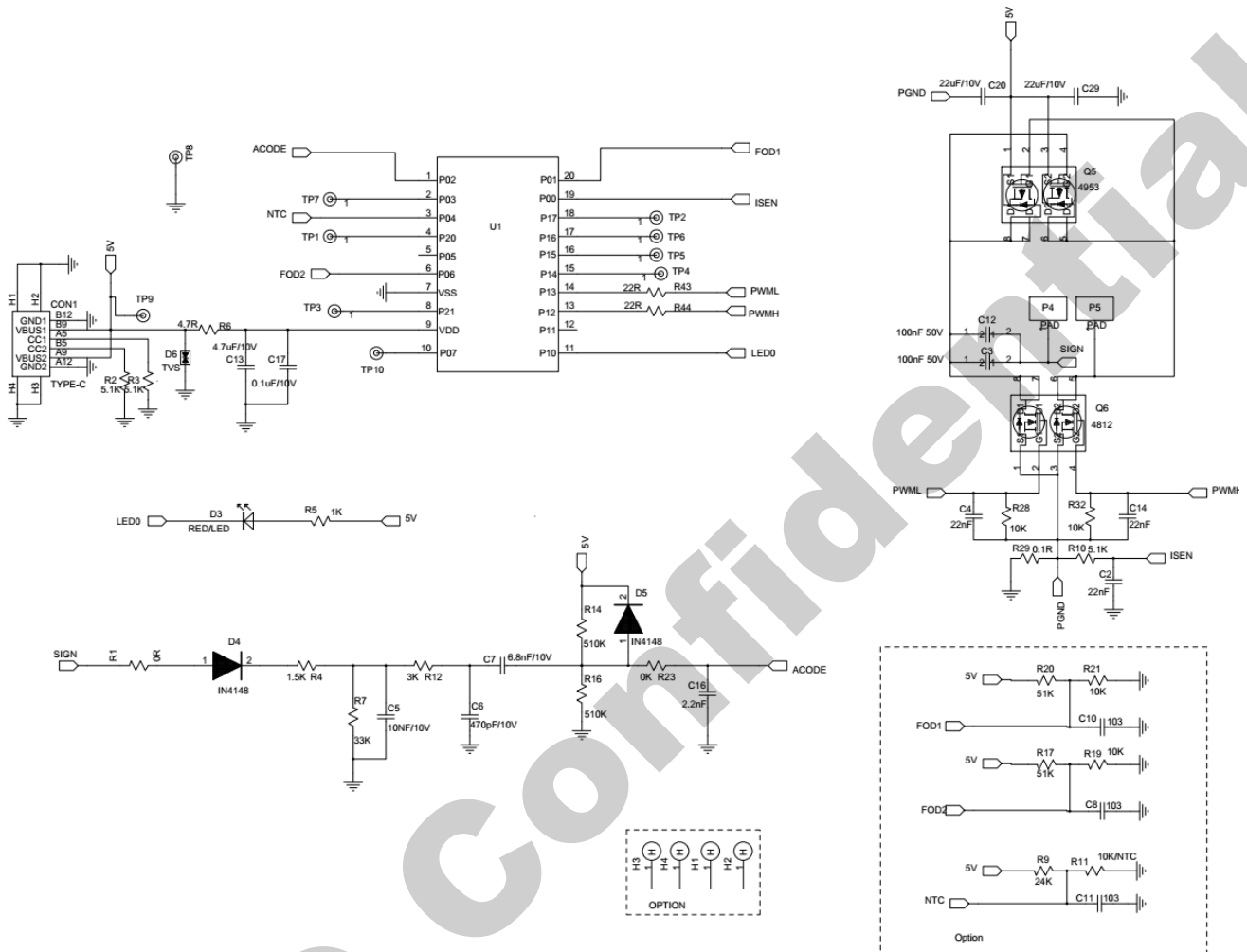


Figure 3. Application Schematics

11. Layout Guidelines

Follow CP8051A DEMO PCB Design

12. Ordering Information

Product Number	Package Type	SPQ
CP8051A	TSSOP20	2500