

USB Serial

[illegible]

The schematic shows the following connections for IC3 (ESP32):

- Power:** VCC (pin 0) to +3V3; GND (pins 1, 2) to GND.
- Reset:** EN (pin 3) to ESP32_RESET/3.1B through resistor R22.
- Sensors:** SENSOR_VP (pin 4) to +3V3; SENSOR_VN (pin 5) to GND.
- I/O Headers:**
 - Header 1: VUSB_SENSE/3.1A (pin 6), VBAT_SENSE/3.2A (pin 7), WS2812_DATA/2.7A (pin 8), EXTIO-0/2.6D (pin 9), I2C_INT/2.2D (pin 10), I2C_SDA/2.1D (pin 11), I2C_SCL/2.1D (pin 12), SD_CLK (pin 13), EXTIO-4/2.6D (pin 14).
 - Header 2: IO12 (pin 12), IO13 (pin 16), SD2 (pin 17), SD3 (pin 18), CLK (pin 19), TEST_POINT20 (pin 20), TEST_POINT21 (pin 21), TEST_POINT22 (pin 22), TEST_POINT23 (pin 23), IO15 (pin 24), IO2 (pin 25).
 - Header 3: TP125 (pin 38), GND (pin 39), TEST_POINT3 (pin 40), SD_DATA0 (pin 41), SD_DATA1 (pin 42), SD_DATA2 (pin 43), SD_DATA3 (pin 44), SD_DATA4 (pin 45), SD_DATA5 (pin 46), SD_DATA6 (pin 47), SD_DATA7 (pin 48).
- Other Connections:**
 - LCD_RESET (pin 37) to GND.
 - LCD_BUSY (pin 36) to GND.
 - ESP32_TX/3.1B (pin 35) to TXD0 (pin 34).
 - ESP32_RX/3.1B (pin 33) to RXD0 (pin 32).
 - LCD_D/S (pin 31) to LCD_CS (pin 30).
 - LCD_SCK (pin 29) to LCD_MOSI (pin 28).
 - EXTIO-2/2.6D (pin 27) to EXTIO-1/2.6D (pin 26).
 - EXTIO-3/2.6D (pin 25) to ESP32_FLASH/3.1C (pin 24).

Pager motor

VCC

27R R2

M1 MOTOR10MM

R11 10k

VIBRATOR/2.3D

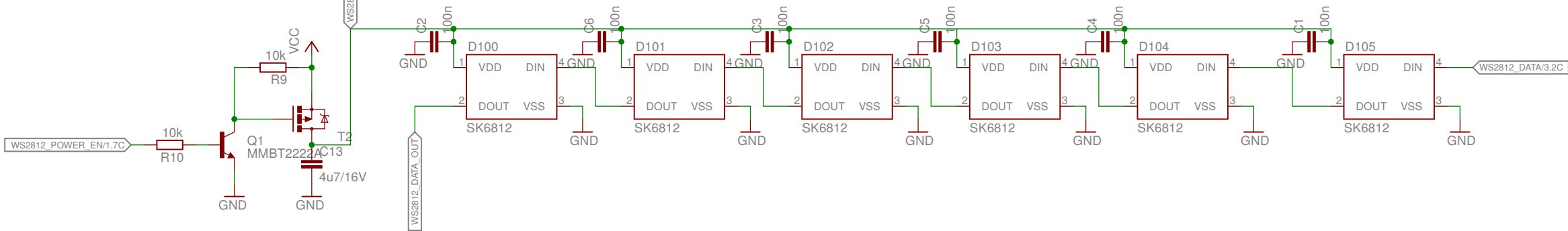
Q2 MMBT2222A

GND

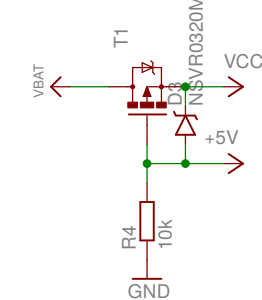
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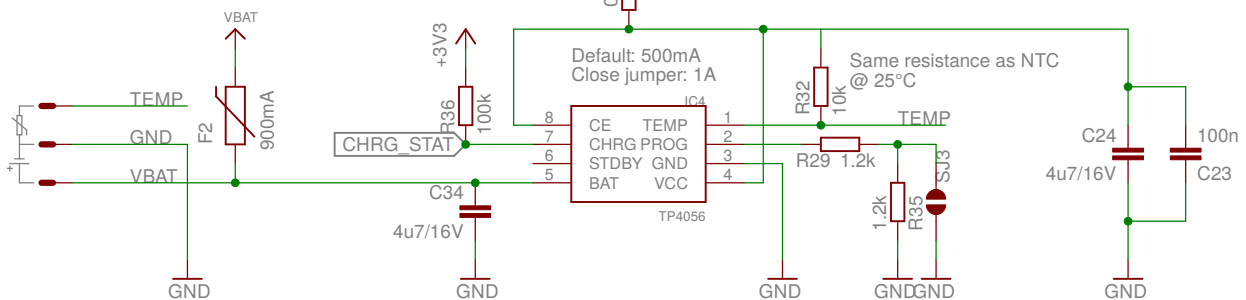
WS2812



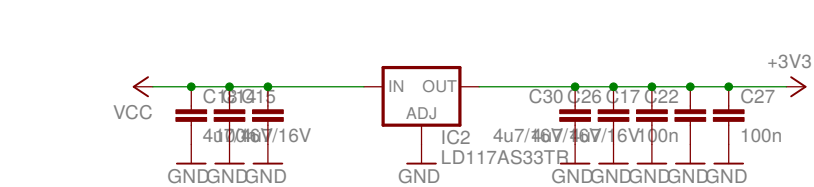
Ideal Diode



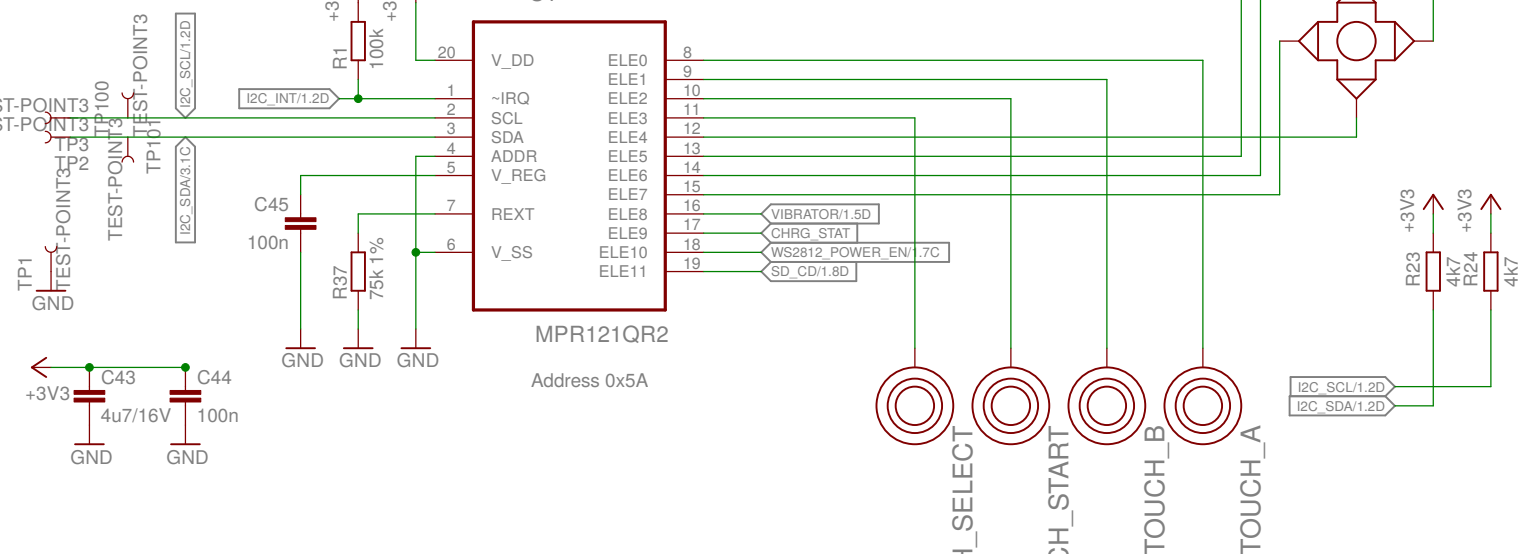
Battery charger



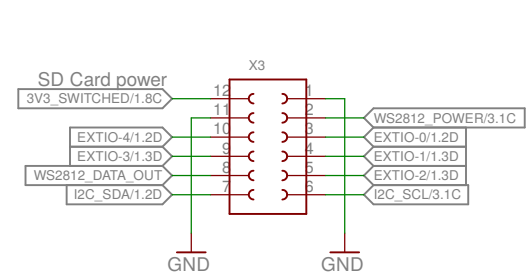
Voltage Regulator



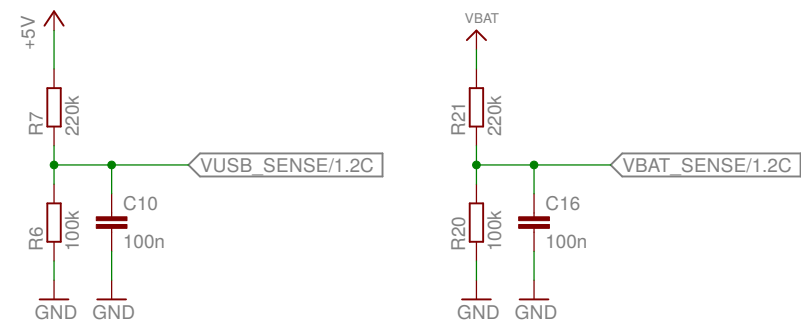
Touch Controller / IO expander



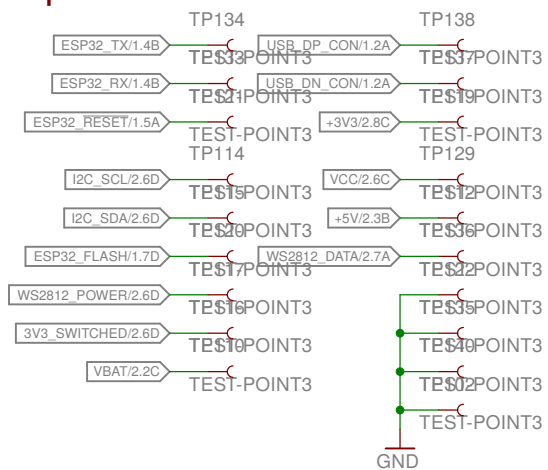
IO header



Voltage sensing



Test points



Special Vias with thermals (hack)

