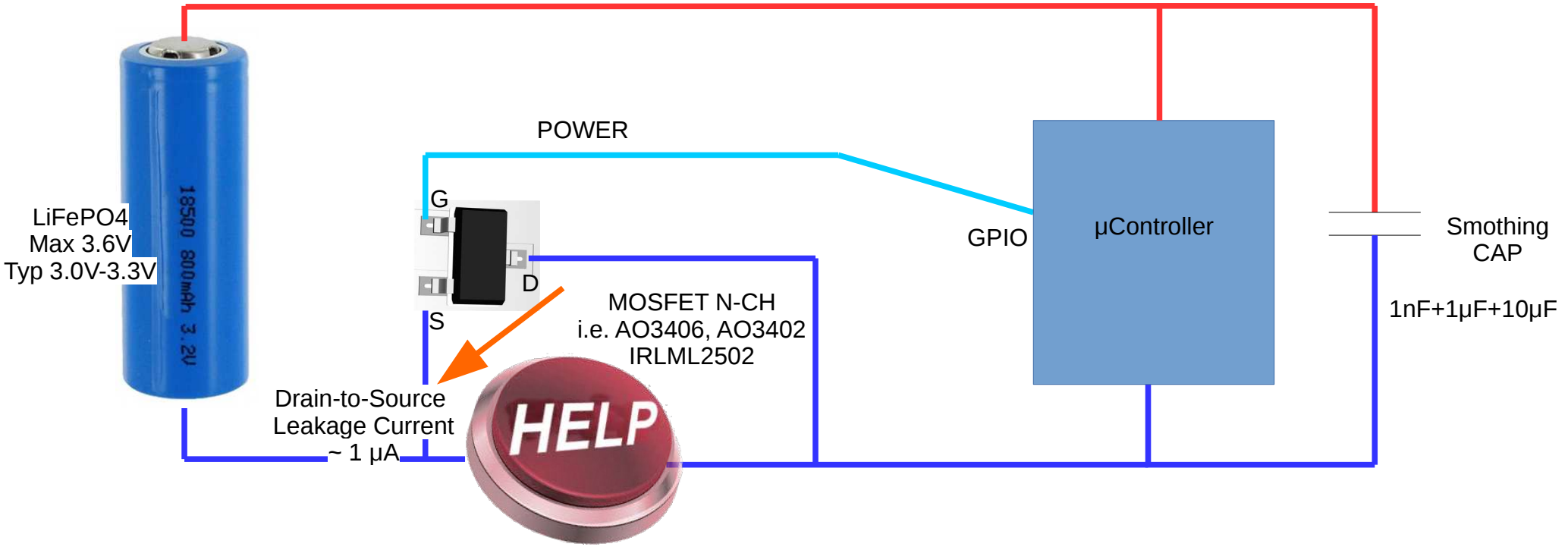
Emergency Button

- battery should last for years
  -> LiFePo + N-Channel MOSFET + Push Button
- send a message without extra costs
  -> for this solution E-Mail (i.e. GMail)
- message should send to more the one recipients
  -> with E-Mail are as many as needed
- only few but reliable services should called
  -> only WiFi and SMTPS
  (no IFTTT, ThingSpeak, MQTT, TWILO,TWITTER,…)
- Communication should by encrypted
  -> SSL/TSL -> SMTPS

sample configuration

pcbreflux

ESP32 Emergency Button



sample configuration

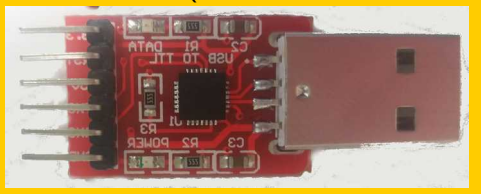
pcbreflux

Push Button no Latch - Off-(On)

ESP32 + WiFi + GMail

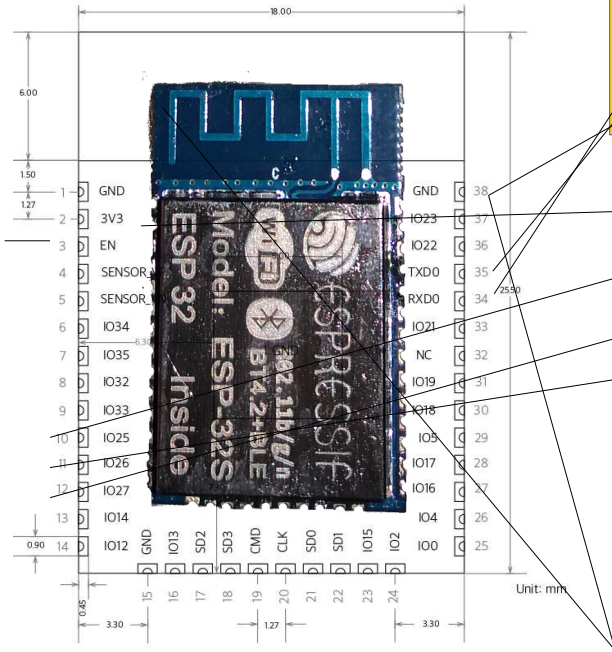
programming only

UART to USB (i.e. CP2102 or FT232R - FTDI)



RX
TX
GND

RX
TX
GND



Source: Espressif
ESP32 WROOM Datasheet

3V2

IO25

IO26

IO27

XGND

POWER

MOSFET N-CH
i.e. AO3406, AO3402
IRLML2502

S

D

G

LED_OK

LED_NOK

221

221

Push Button no Latch - Off-(On)

sample configuration

pcbreflux