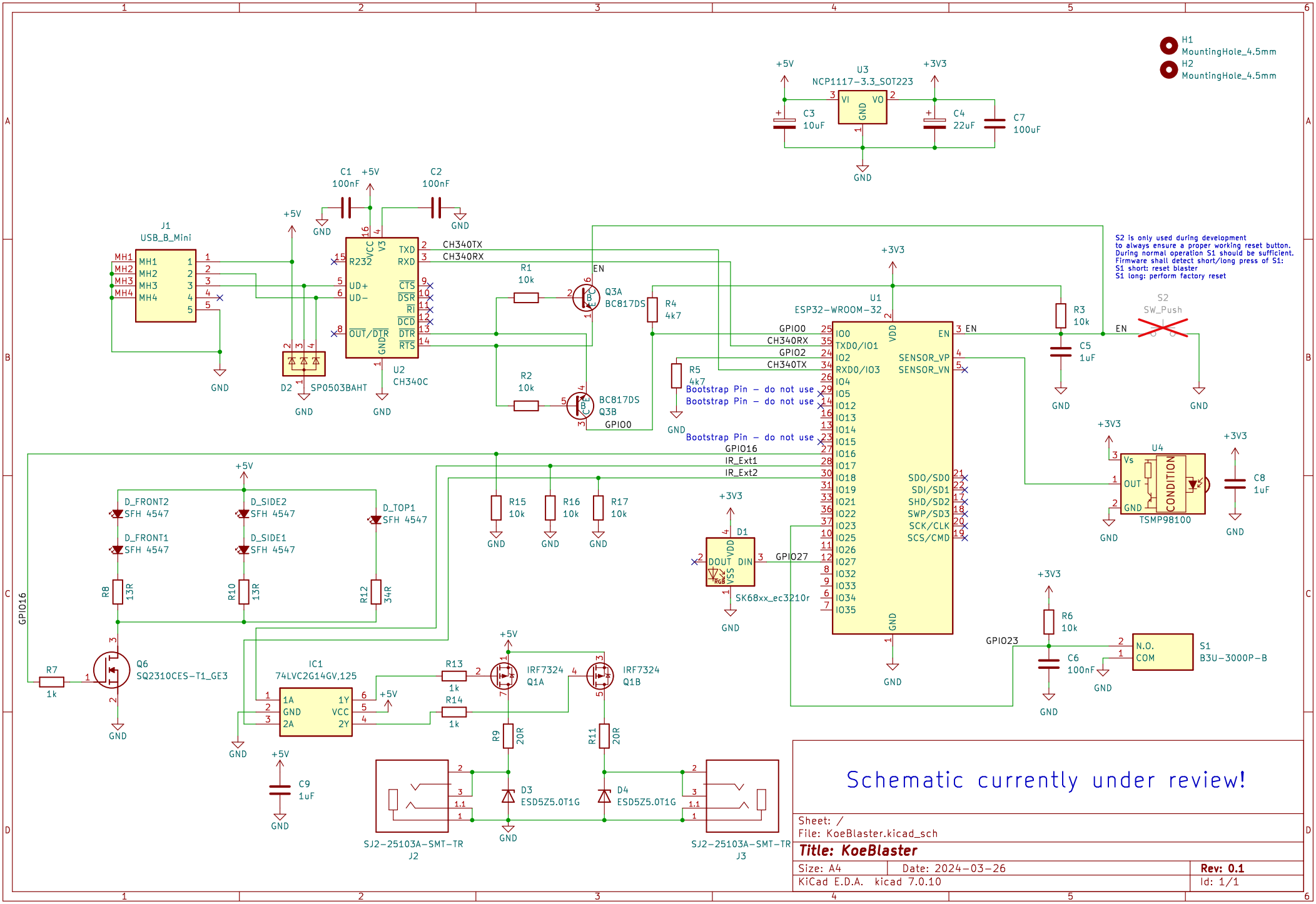
H1
MountingHole_4.5mm
H2
MountingHole_4.5mm
U3
NCP1117-3.3_SOT223
+5V
+3V3
C3
10uF
C4
22uF
C7
100uF
GND
C1
100nF
C2
100nF
J1
USB_B_Mini
MH1
MH2
MH3
MH4
D2
SP0503BAHT
U2
CH340C
R232
UD+
UD-
OUT/DTR
TXD
RXD
CTS
DSR
RI
DCD
DTR
RTS
CH340TX
CH340RX
R1
10k
R2
10k
Q3A
BC817DS
Q3B
BC817DS
GPIO0
EN
R4
4k7
R5
4k7
Bootstrap Pin - do not use
U1
ESP32-WROOM-32
GPIO0
CH340RX
GPIO2
CH340TX
IO0
TXD0/IO1
IO2
RXD0/IO3
IO4
IO5
IO12
IO13
IO14
IO15
IO16
IO17
IO18
IO19
IO21
IO22
IO23
IO25
IO26
IO27
IO32
IO33
IO34
IO35
VDD
EN
SENSOR_VP
SENSOR_VN
SDO/SD0
SDI/SD1
SHD/SD2
SWP/SD3
SCK/CLK
SCS/CMD
GND
R3
10k
C5
1uF
S2
SW_Push
S2 is only used during development
to always ensure a proper working reset button.
During normal operation S1 should be sufficient.
Firmware shall detect short/long press of S1:
S1 short: reset blaster
S1 long: perform factory reset
U4
TSMP98100
Vs
OUT
GND
CONDITION
C8
1uF
GPIO16
IR_Ext1
IR_Ext2
R15
10k
R16
10k
R17
10k
D1
SK68xx_ec3210r
DOUT
DIN
GPIO27
D_FRONT2
SFH 4547
D_FRONT1
SFH 4547
D_SIDE2
SFH 4547
D_SIDE1
SFH 4547
D_TOP1
SFH 4547
R8
13R
R10
13R
R12
34R
R7
1k
Q6
SQ2310CES-T1_GE3
IC1
74LVC2G14GV,125
1A
GND
2A
1Y
VCC
2Y
R13
1k
R14
1k
IRF7324
Q1A
IRF7324
Q1B
R9
20R
R11
20R
D3
ESD5Z5.0T1G
D4
ESD5Z5.0T1G
C9
1uF
SJ2-25103A-SMT-TR
J2
SJ2-25103A-SMT-TR
J3
R6
10k
GPIO23
C6
100nF
S1
B3U-3000P-B
N.O.
COM
Schematic currently under review!
Sheet: /
File: KoeBlaster.kicad_sch
Title: KoeBlaster
Size: A4
Date: 2024-03-26
Rev: 0.1
KiCad E.D.A. kicad 7.0.10
Id: 1/1