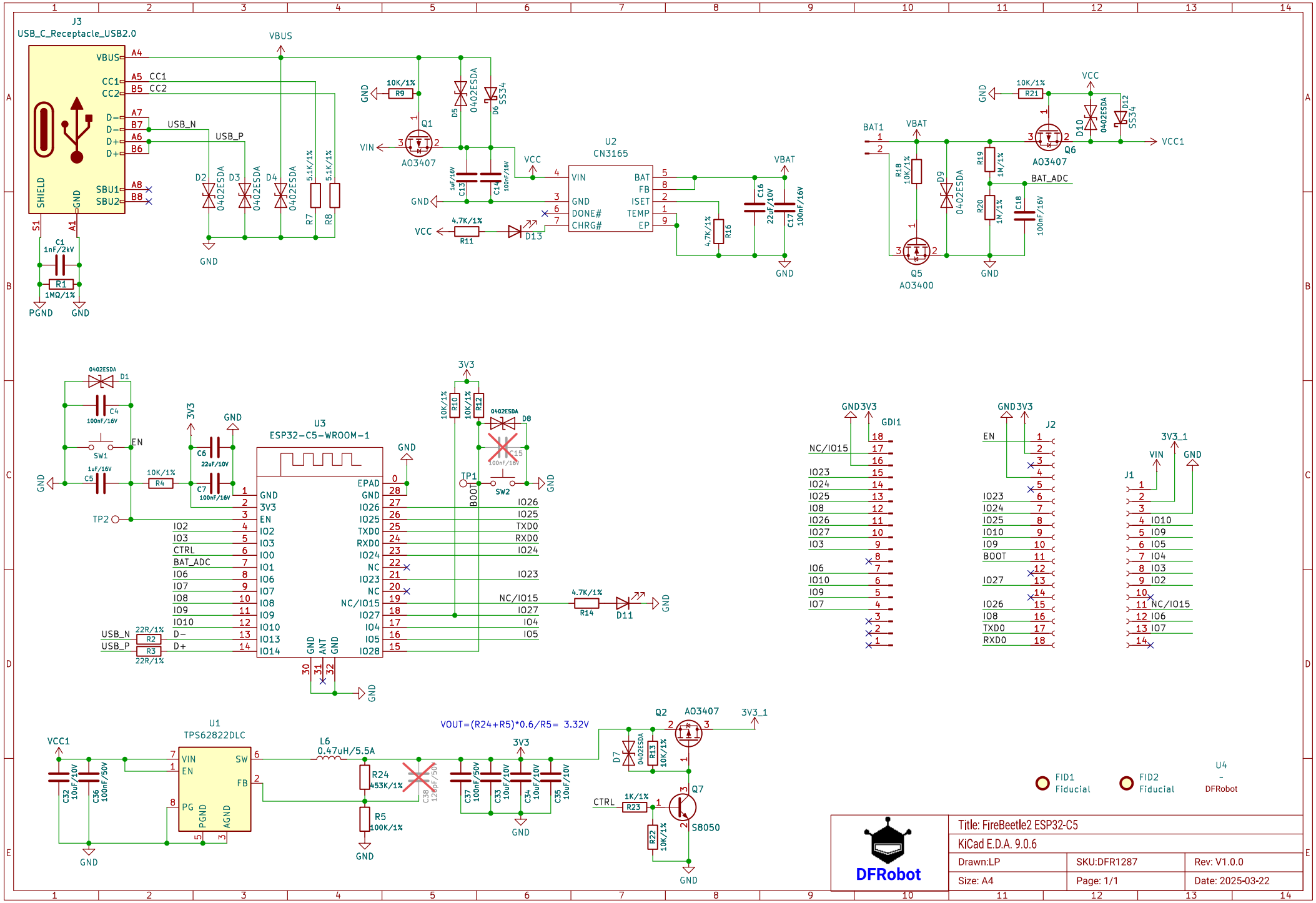
J3
USB_C_Receptacle_USB2.0
VBUS
CC1
CC2
USB_N
USB_P
SHIELD
GND
SBU1
SBU2
S1
C1
1nF/2kV
R1
1MΩ/1%
PGND
D2
D3
D4
0402ESDA
R7
R8
5.1K/1%
R9
10K/1%
Q1
AO3407
VIN
D5
D6
SS34
U2
CN3165
VCC
C13
1uF/16V
C14
100nF/16V
R11
4.7K/1%
D13
BAT
FB
ISET
TEMP
EP
DONE#
CHRG#
R16
C16
22uF/10V
C17
VBAT
BAT1
R18
10K/1%
D9
R19
1M/1%
R20
C18
BAT_ADC
R21
Q6
Q5
AO3400
VCC1
D10
D12
U3
ESP32-C5-WROOM-1
3V3
EN
SW1
C4
100nF/16V
C5
1uF/16V
R4
C6
22uF/10V
C7
TP2
D1
R10
R12
D8
C15
TP1
BOOT
SW2
IO2
IO3
CTRL
BAT_ADC
IO6
IO7
IO8
IO9
IO10
D−
D+
IO13
IO14
EPAD
IO26
IO25
TXD0
RXD0
IO24
NC
IO23
NC/IO15
IO27
IO4
IO5
IO28
ANT
R14
D11
R2
R3
22R/1%
GDI1
J2
J1
3V3_1
U1
TPS62822DLC
VIN
EN
SW
FB
PG
PGND
AGND
L6
0.47uH/5.5A
R24
453K/1%
R5
100K/1%
C38
120pF/50V
C32
C36
C37
C33
C34
C35
VOUT=(R24+R5)*0.6/R5= 3.32V
Q2
AO3407
D7
R13
R22
R23
1K/1%
CTRL
Q7
S8050
FID1
Fiducial
FID2
Fiducial
U4
DFRobot
DFRobot
Title: FireBeetle2 ESP32-C5
KiCad E.D.A. 9.0.6
Drawn:LP
SKU:DFR1287
Rev: V1.0.0
Size: A4
Page: 1/1
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