



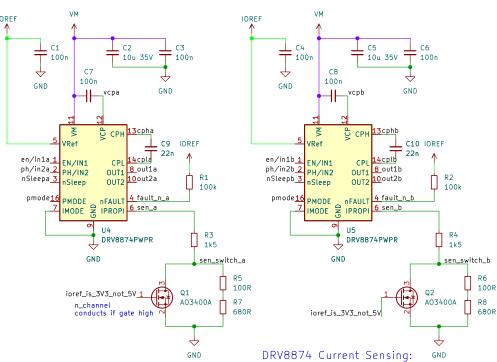
ph/in2b



Status LEDs

VIN R10 47k Z D1 ≥ 0603_LED

GND



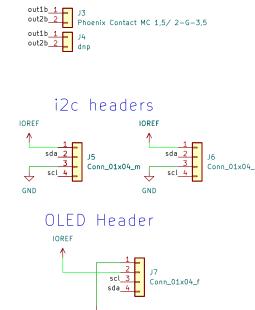
0.000455 A_prop per A

5V = 0.000455*(1500+780)*A => A=4.823.3V = 0.000455*1500

V_prop is limited to VRef inside DRV8874

O FID1 Toolinghole_jlc

FID2
Toolinghole_jlc
FID3
Toolinghole_jlc



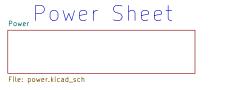
74HC04

74HC08

74HC08

out1a_1 J1 out2a_2 Phoenix Contact MC 1,5/ 2-G-3,5

out1a_1 out2a_2

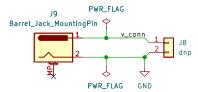


Engineer: Erwin Peterlin semify-eda.com

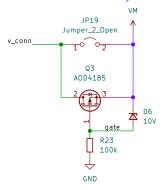
Sheet: / File: motor—shield.kicad_sch Title: Motor Shield (DCC-EX compatible)

Size: A3 Date: 2023-02-06 KiCad E.D.A. kicad (6.0.11) Rev: Prototype A

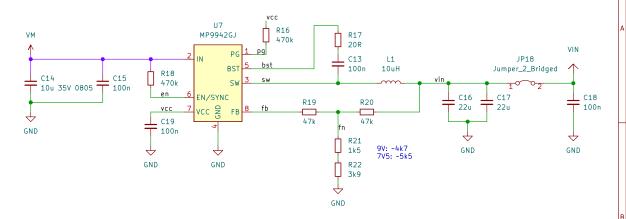
Barrel Jack



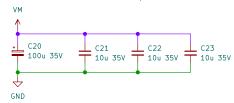
Reverse Polarity Protection

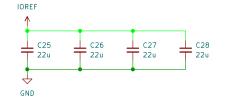


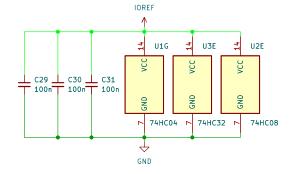
VIN DCDC Buck Converter



Bulk Caps







Engineer: Erwin Peterlin

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Sheet: /Power/ File: power.kicad_sch

Title: Motor Shield (DCC-EX compatible)

 Size: A4
 Date: 2023-02-06
 Rev: Prototype A

 KiCad E.D.A. kicad (6.0.11)
 Id: 2/2