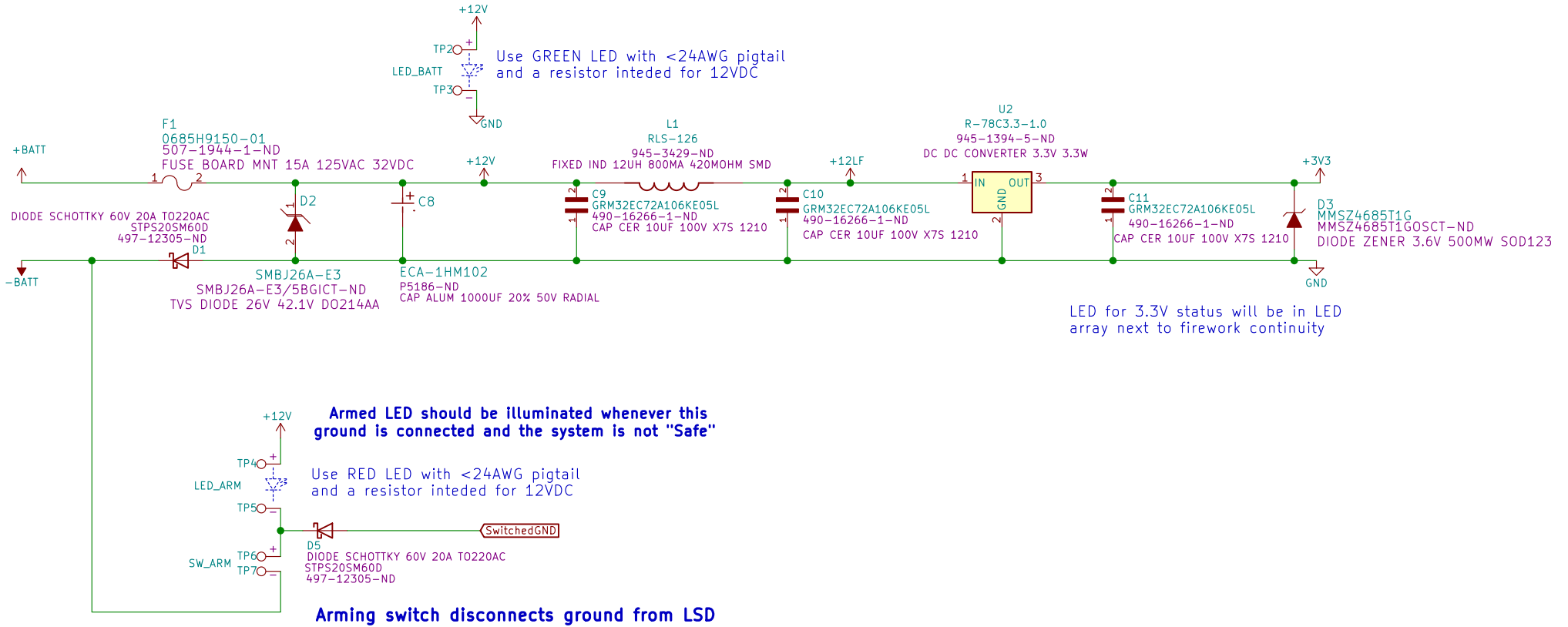


+BATT from positive battery terminal
 +12V fused, with 1mF reservoir
 +12LF fused, and inductor filter
 +3V3 from 3.3V DC/DC converter

GND has a reverse-polarity diode and is one diode drop above -BATT
 SwitchGND enabled by SW_ARM switch and has a reverse-polarity diode making it one diode drop above -BATT
 -BATT from negative battery terminal



12V Battery Power

QDE

Sheet: /Power/

File: Power.sch

Title: CAN to 8-Channel LSD

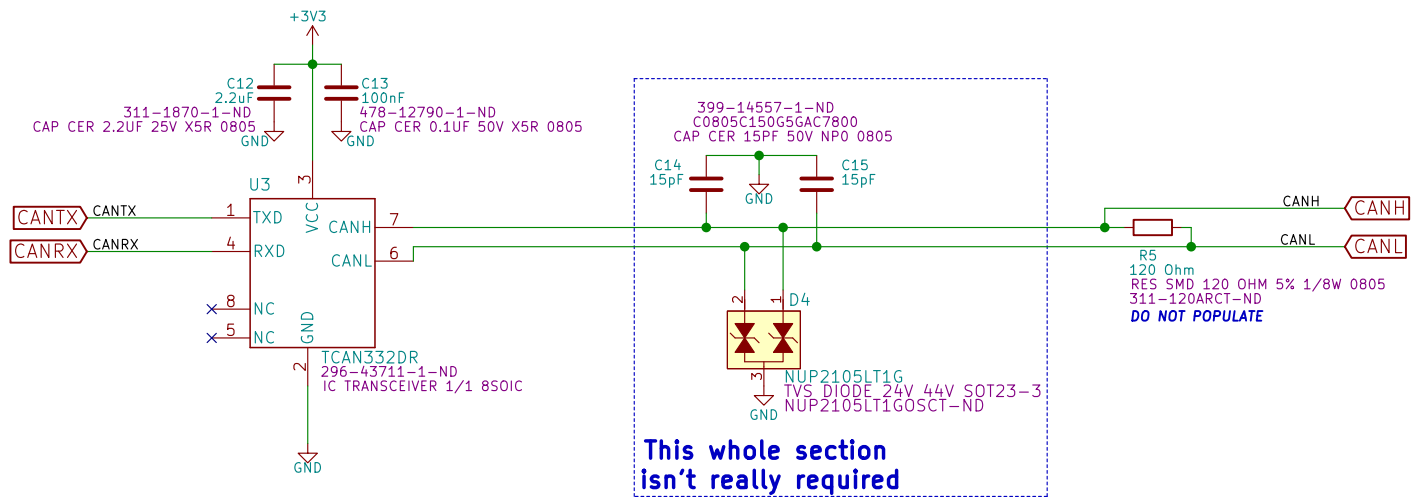
Size: A4

Date: 2020-07-05

Rev: 0.3

KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1

Id: 2/4



CAN Transceiver
QDE

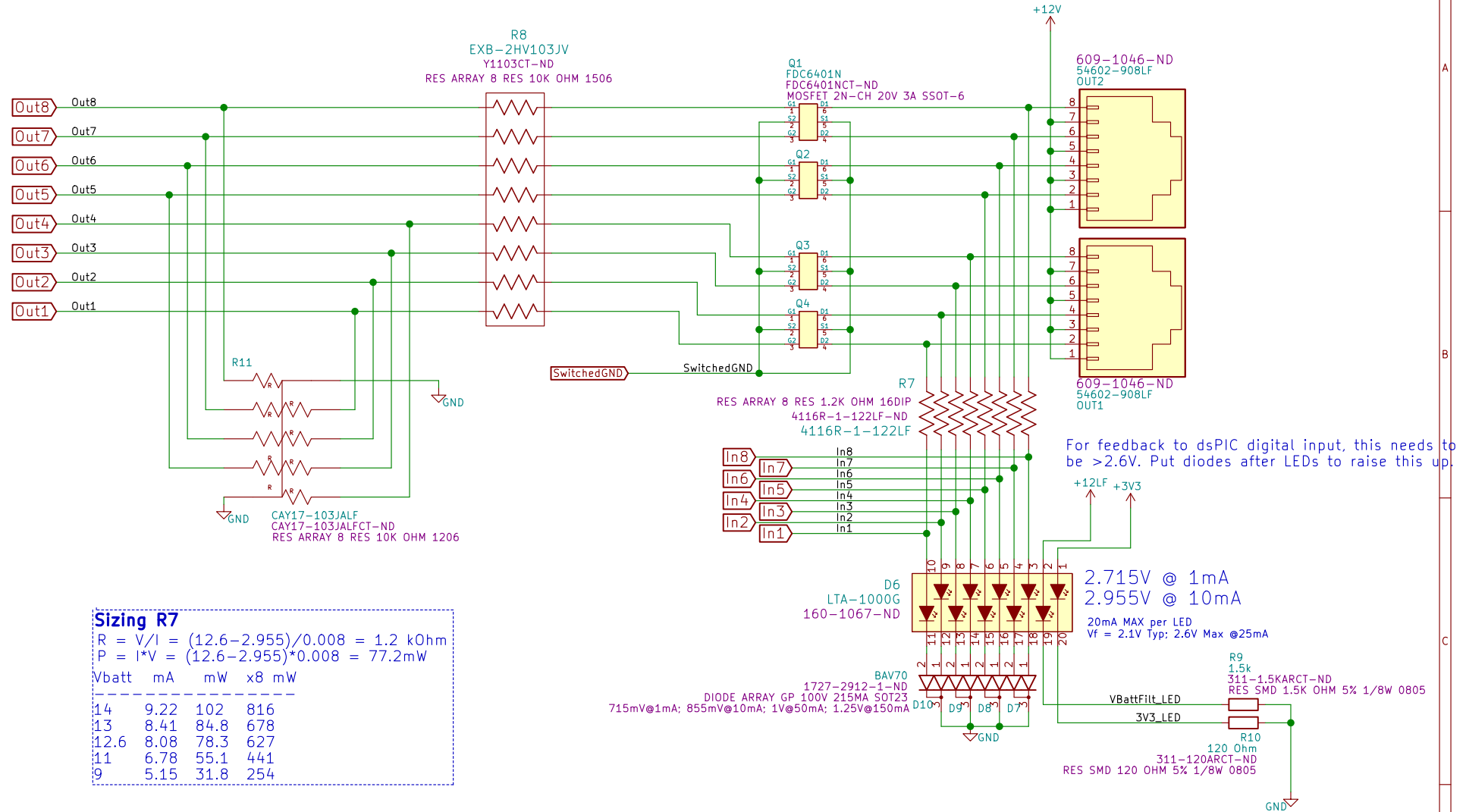
Sheet: /CAN/
 File: CAN.sch

Title: CAN to 8-Channel LSD

Size: A4 Date: 2020-07-05
 KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1

Rev: 0.3
 Id: 3/4

12.6VDC is fully-charged, RESTED for an hour, battery



Sizing R7

$R = V/I = (12.6 - 2.955) / 0.008 = 1.2 \text{ k}\Omega$

$P = I*V = (12.6 - 2.955) * 0.008 = 77.2 \text{ mW}$

V _{batt}	mA	mW	x8 mW
14	9.22	102	816
13	8.41	84.8	678
12.6	8.08	78.3	627
11	6.78	55.1	441
9	5.15	31.8	254

Low-Side Driver with Continuity LEDs and Feedback

QDE

Sheet: /LSD/
File: LSD.sch

Title: CAN to 8-Channel LSD

Size: A4	Date: 2020-07-05	Rev: 0.3
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1		Id: 4/4