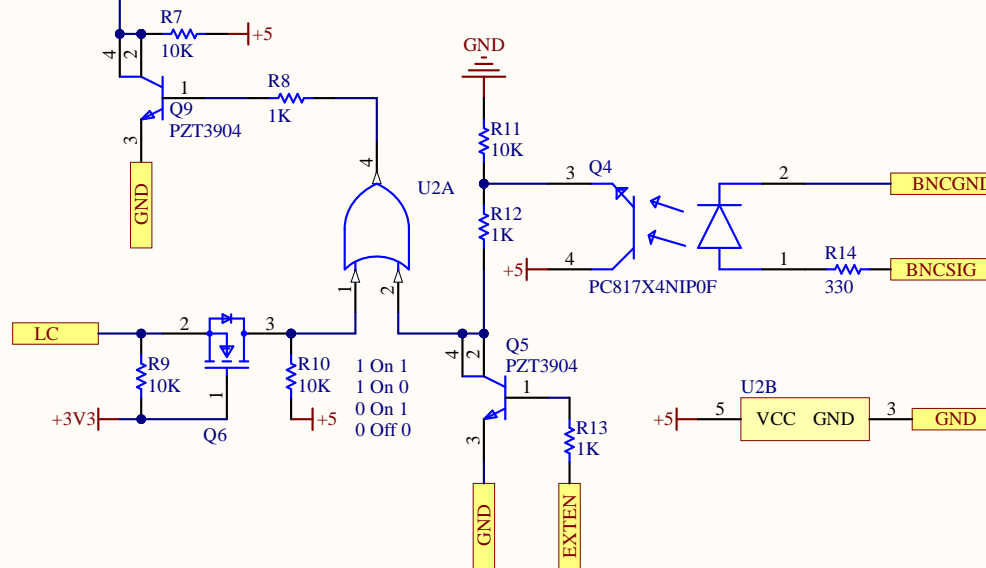
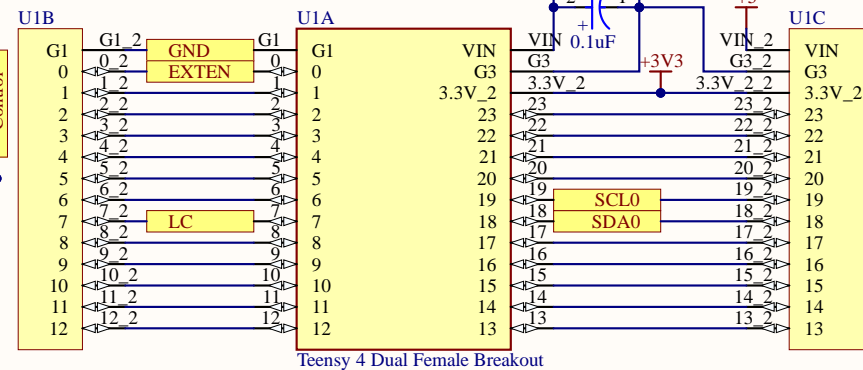
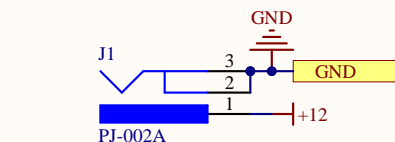
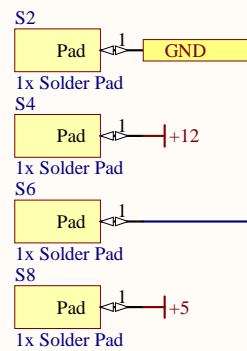
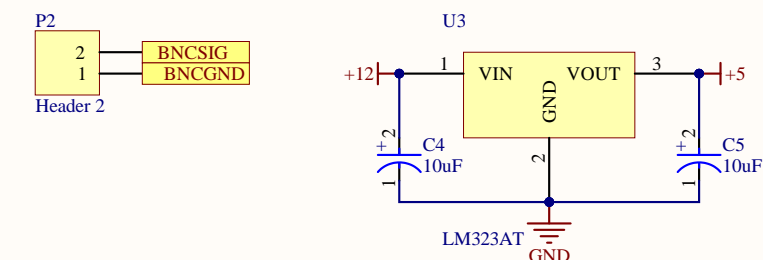
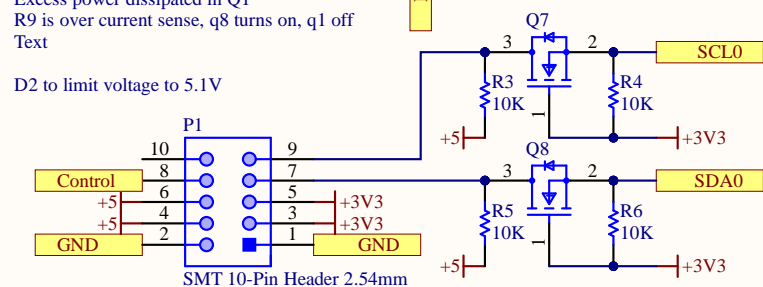


Excess power dissipated in Q1
R9 is over current sense, q8 turns on, q1 off
Text

D2 to limit voltage to 5.1V



Title		
Size A	Number	Revision
Date:	1/01/2021	Sheet of
File:	C:\Users\...\StroboscopeSheet.SchDoc	Drawn By:

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Date:	1/01/2021	Sheet of
File:	C:\Users\...\StroboscopeSheet.SchDoc	Drawn By:

Date:	1/01/2021	Sheet of
File:	C:\Users\...\StroboscopeSheet.SchDoc	Drawn By:

Date:	1/31/2021	Sheet: 51
File:	C:\Users\...\StroboscopeSheet.SchDoc	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
0.1uF	CAP ALUM 47UF 20% 25V RADIAL	C1	FP-ZLG6_3X7-MFG	CMP-35376-000005-1	1
100uF	CAP ALUM 47UF 20% 25V RADIAL	C2	FP-ZLG6_3X7-MFG	CMP-35376-000005-1	1
1000uF	Aluminum Electrolytic Capacitor, 1000 uF, +/- 20%, 16 V, -40 to 105 degC, 2-Pin THD, RoHS, Tape and Reel	C3	PNSC-EEUFM1H221-2	CMP-2000-05313-1	1
10uF	CAP ALUM 47UF 20% 25V RADIAL	C4, C5	FP-ZLG6_3X7-MFG	CMP-35376-000005-1	2
MKRAWT-00-0000-0B00H40E5	LED, White, 6 V, 2-Pin SMD, RoHS, Tape and Reel	DS1	CREE-MK-R-2_V	CMP-2100-00930-1	1
PJ-002A	Through Hole Right Angle DC Power Jack, 2.5 A, 2 mm Center Pin, 3 Position, -25 to 85 degC, RoHS, Bulk	J1	CUI-PJ-002A_V	CMP-2000-06895-1	1
SMT 10-Pin Header 2.54mm		P1	SMT 10 Pin Header-Footprint-1	CMP-001-0001-1	1
Header 2	Header, 2-Pin	P2	HDR1X2	Header 2	1
IRL520	Hexfet 9.2A 100V TO-220 50PCS/TUBE	Q1	IRL520-Footprint-1	CMP-013-00034-2	1
PZT3904	TRANS NPN 40V 0.2A SOT223	Q2, Q3, Q5, Q9	FP-318H-01-MFG	CMP-07170-000017-1	4
PC817X4NIP0F	OPTOISOLATOR 5KV TRANS 4SMD	Q4	FP-PC817X4NIP0F-MFG	CMP-65434-000001-1	1
BSS138	MOSFET N-CH 50V 220MA SOT-23	Q6, Q7, Q8	FP-318-08-IPC_B	CMP-07173-000101-1	3
100K		R1	RESC2013X50X30ML2 0T20	CMP-2001-03735-1	1
0.47Ohm	RES 0.22 OHM 1% 1W 2512	R2	FP-ERJ1TR-MFG	CMP-05422-000060-1	1
10K		R3, R4, R5, R6, R7, R9, R10, R11	RESC2013X50X30ML2 0T20	CMP-2001-03735-1	8
1K		R8, R12, R13	RESC2013X50X30ML2 0T20	CMP-2001-03735-1	3
330		R14	RESC2013X50X30ML2 0T20	CMP-2001-03735-1	1
1x Solder Pad	3mmx4mm Solder Pad	S1, S2, S3, S4, S5, S6, S7, S8	Solder Pad-Footprint-1	CMP-00000-2	8
Teensy 4 Dual Female Breakout	Teensy 4.0 Microcontroller layout for dual-female SMT headers	U1	Teensy 4 Dual Female Breakout-Footprint-1	CMP-016-0001-2	1
SN74LVC1G32DCKR	Single 2-Input Positive-OR Gate, DCK0005A, LARGE T&R	U2	DCK0005A_N	CMP-0859-00376-3	1
LM323AT	IC REG LINEAR 5V 3A TO220AB	U3	New footprint 1	CMP-001-0000-3	1