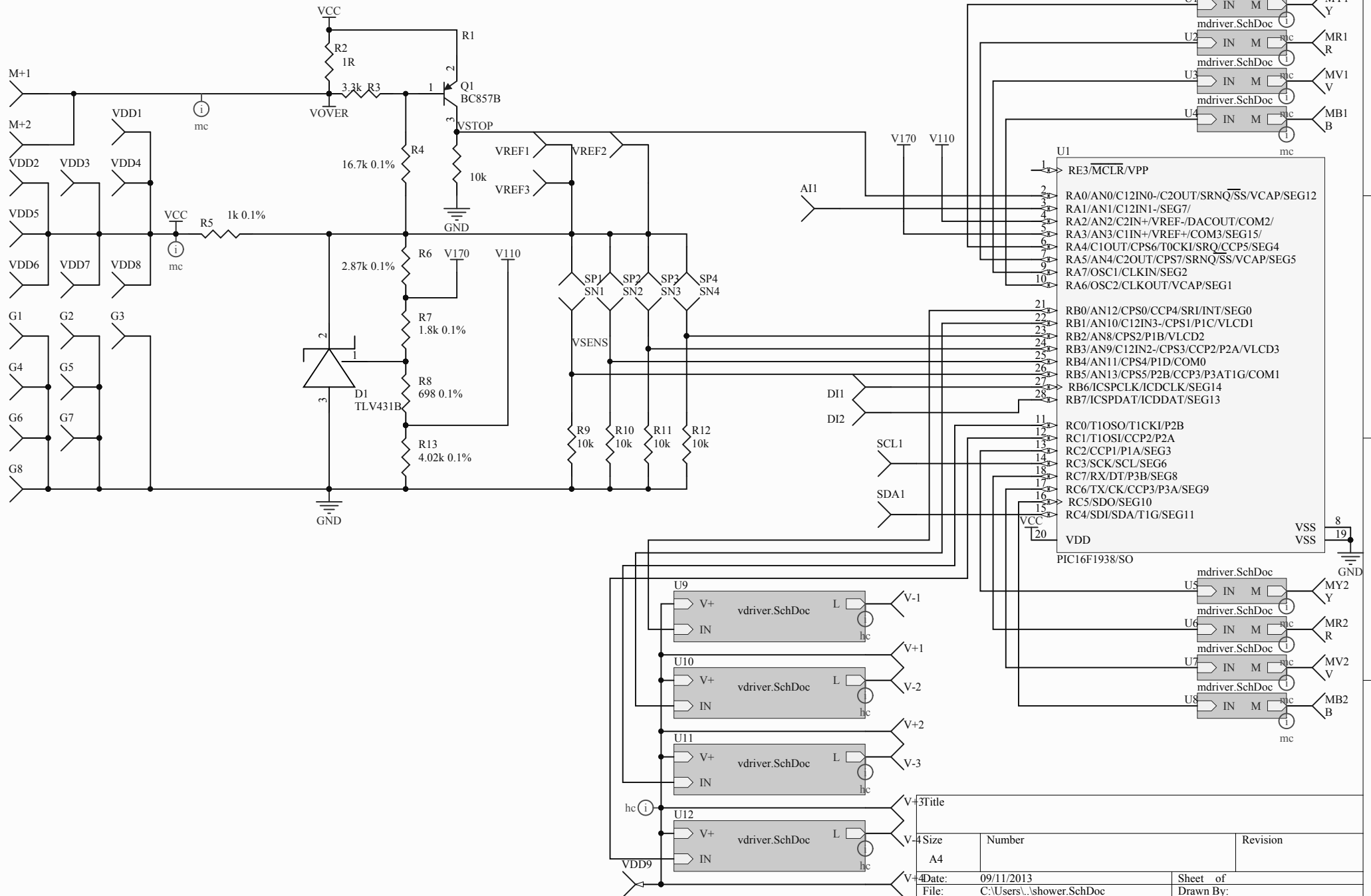


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A

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B

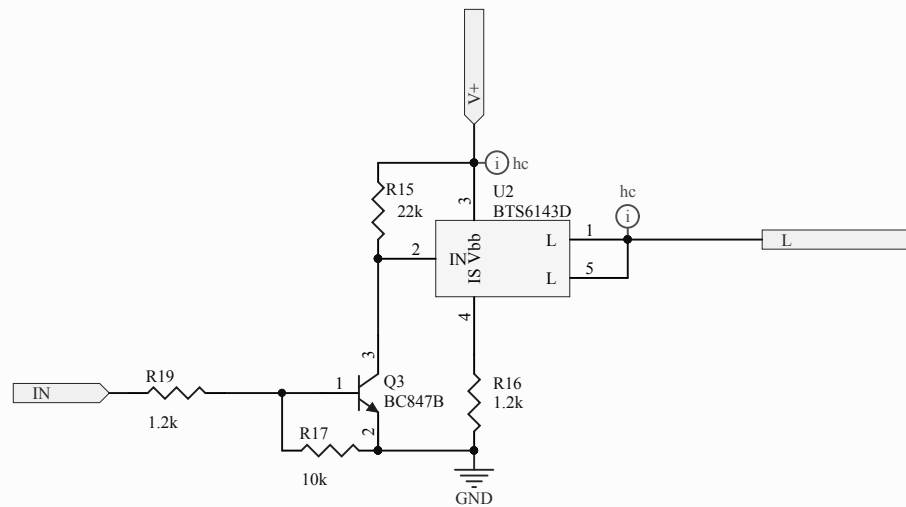
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C

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D



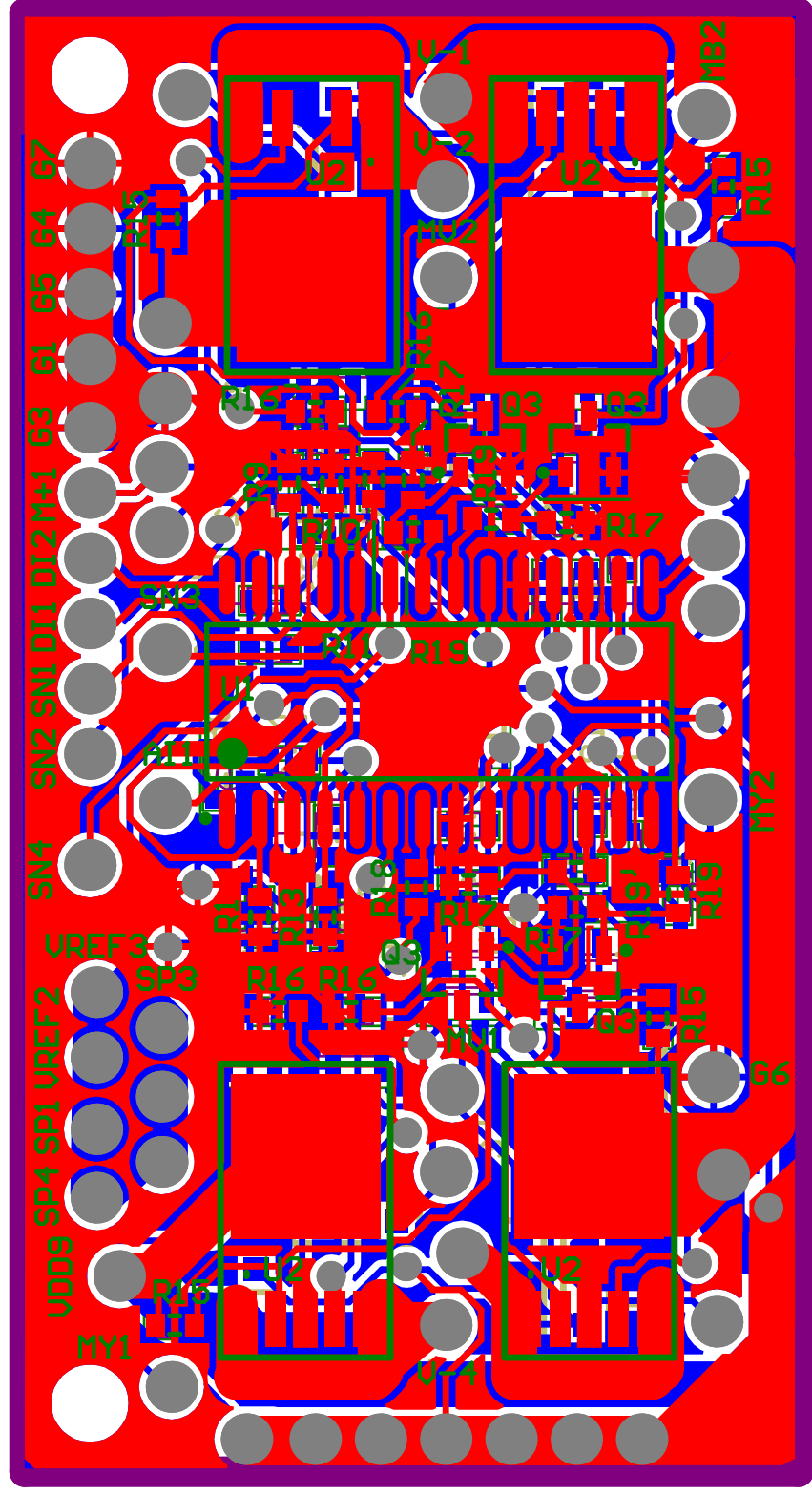
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File:	C:\Users\...\vdriver.SchDoc	Drawn By:

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Comment	Description	Designator	Footprint	LibRef	Quantity
+5V	Socket	AI1, DI1, DI2, M+1, M+2, SCL1, SDA1, SN1, SN2, SN3, SN4, SP1, SP2, SP3, SP4, V+1, V+2, V+3, V+4, V-1, V-2, V-3, V-4, VDD1, VDD2, VDD3, VDD4, VDD5, VDD6, VDD7, VDD8, VDD9, VREF1, VREF2, VREF3	PIN1	Socket	35
TLV431B		D1	SOT-23_N	TLV431A	1
1N4148W	Default Diode	D2_U1, D2_U2, D2_U3, D2_U4, D2_U5, D2_U6, D2_U7, D2_U8	SOD-123	Diode	8
Socket	Socket	G1, G2, G3, G4, G5, G6, G7, G8	PIN1	Socket	8
B	Socket	MB1, MB2	PIN1	Socket	2
R	Socket	MR1, MR2	PIN1	Socket	2
V	Socket	MV1, MV2	PIN1	Socket	2
Y	Socket	MY1, MY2	PIN1	Socket	2
BC857B	PNP Bipolar Transistor	Q1	SOT-23_N	PNP	1
BC847B	NPN Bipolar Transistor	Q2_U1, Q2_U2, Q2_U3, Q2_U4, Q2_U5, Q2_U6, Q2_U7, Q2_U8, Q3_U9, Q3_U10, Q3_U11, Q3_U12	SOT-23_N	NPN	12
10k	Resistor	R1, R9, R10, R11, R12, R14_U1, R14_U2, R14_U3, R14_U4, R14_U5, R14_U6, R14_U7, R14_U8, R17_U9, R17_U10, R17_U11, R17_U12	J1-0603	Res3	17
1R	Resistor	R2	J1-0603	Res3	1
3.3k	Resistor	R3	J1-0603	Res3	1
16.7k 0.1%	Resistor	R4	J1-0603	Res3	1
1k 0.1%	Resistor	R5	J1-0603	Res3	1
2.87k 0.1%	Resistor	R6	J1-0603	Res3	1
1.8k 0.1%	Resistor	R7	J1-0603	Res3	1
698 0.1%	Resistor	R8	J1-0603	Res3	1
4.02k 0.1%	Resistor	R13	J1-0603	Res3	1
22k	Resistor	R15_U9, R15_U10, R15_U11, R15_U12	J1-0603	Res3	4
1.2k	Resistor	R16_U9, R16_U10, R16_U11, R16_U12, R18_U1, R18_U2, R18_U3, R18_U4, R18_U5, R18_U6, R18_U7, R18_U8, R19_U9, R19_U10, R19_U11, R19_U12	J1-0603	Res3	16
PIC16F1938/SO	CMOS Microcontroller with LCD Driver, 8K (words) Program Memory, 256 Bytes Data Memory, 512 Bytes SRAM, 25 I/O's, 28-Pin SOIC, Industrial Temperature, Tape and Reel	U1	SOIC-SO28_N	PIC16F1936T-I/SO	1
BTS6143D		U2_U9, U2_U10, U2_U11, U2_U12	BTS6143D	BTS6143D	4