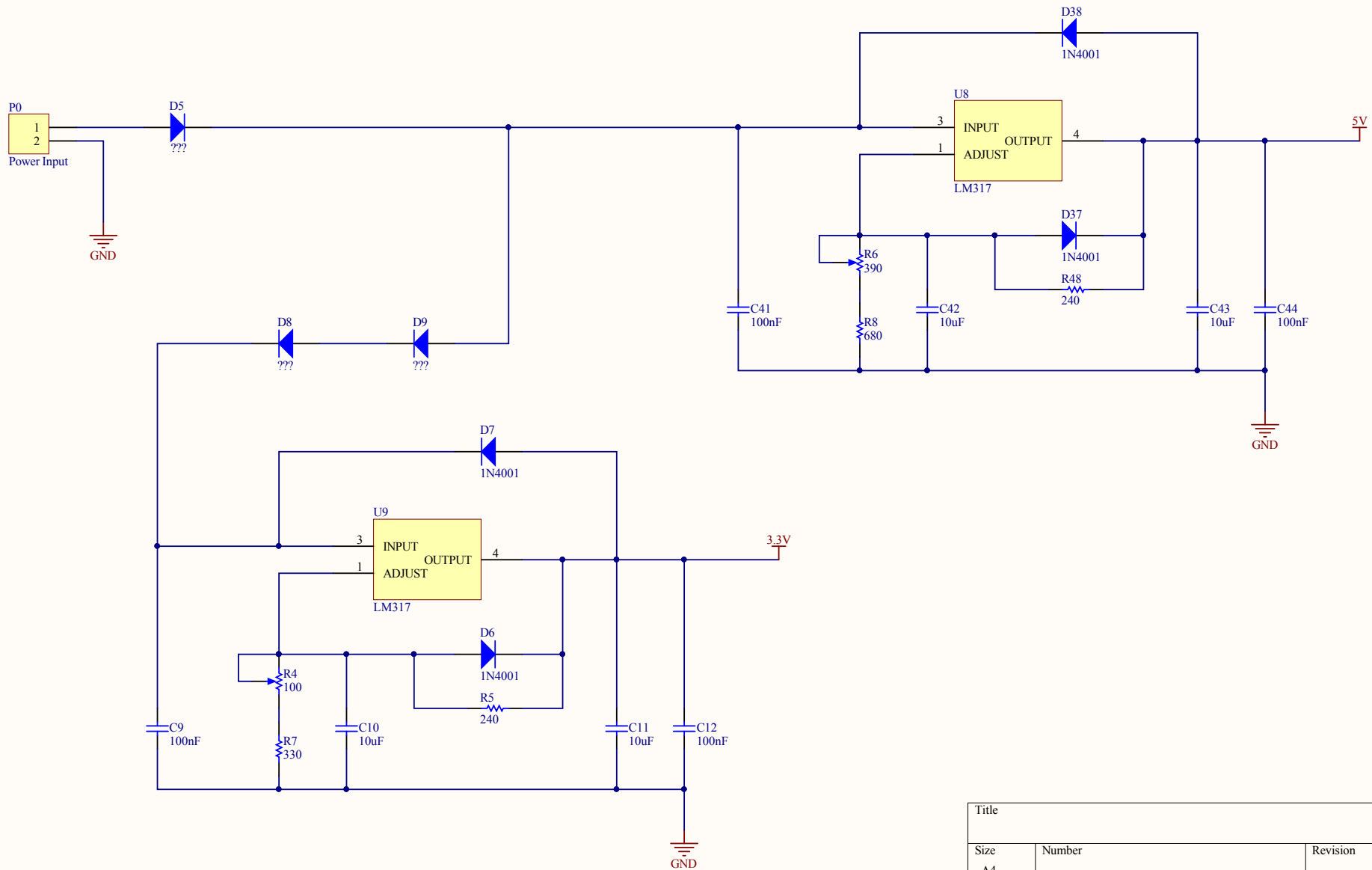
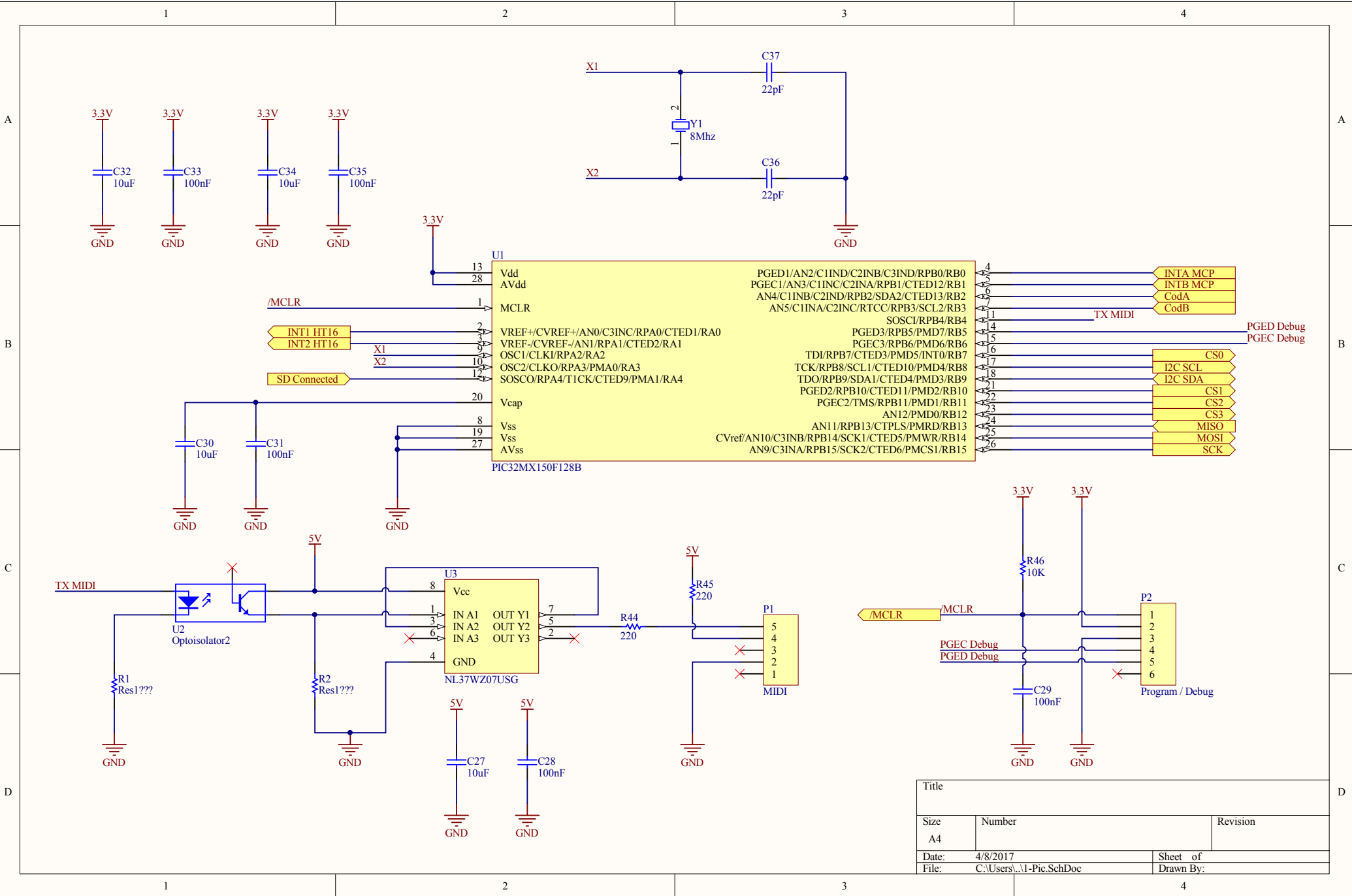


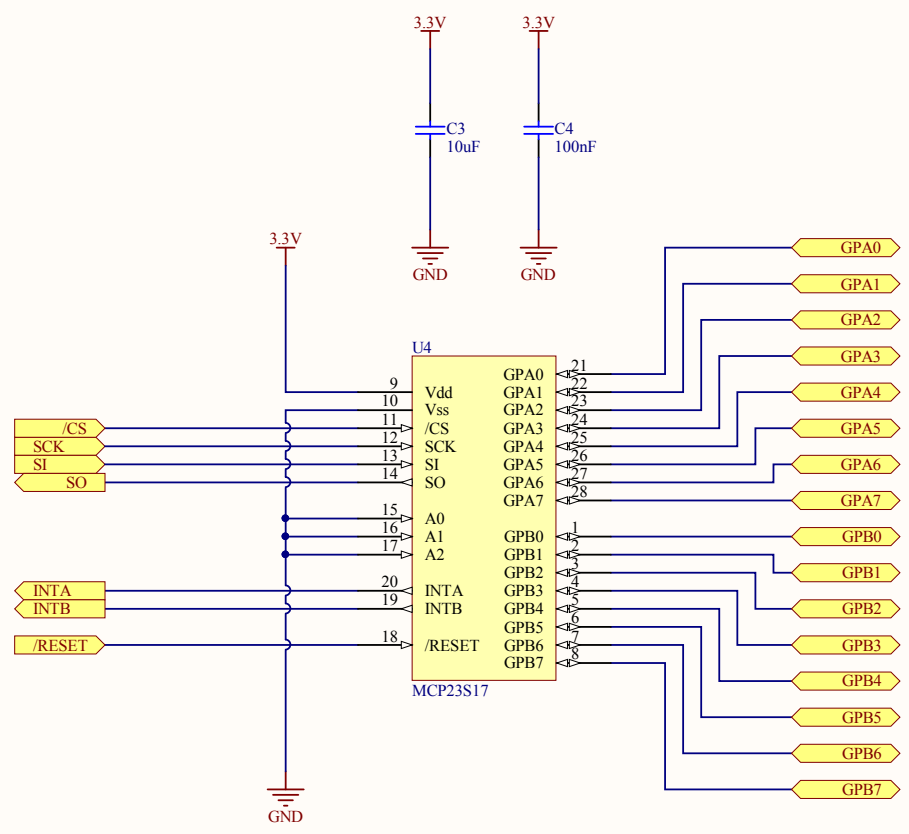
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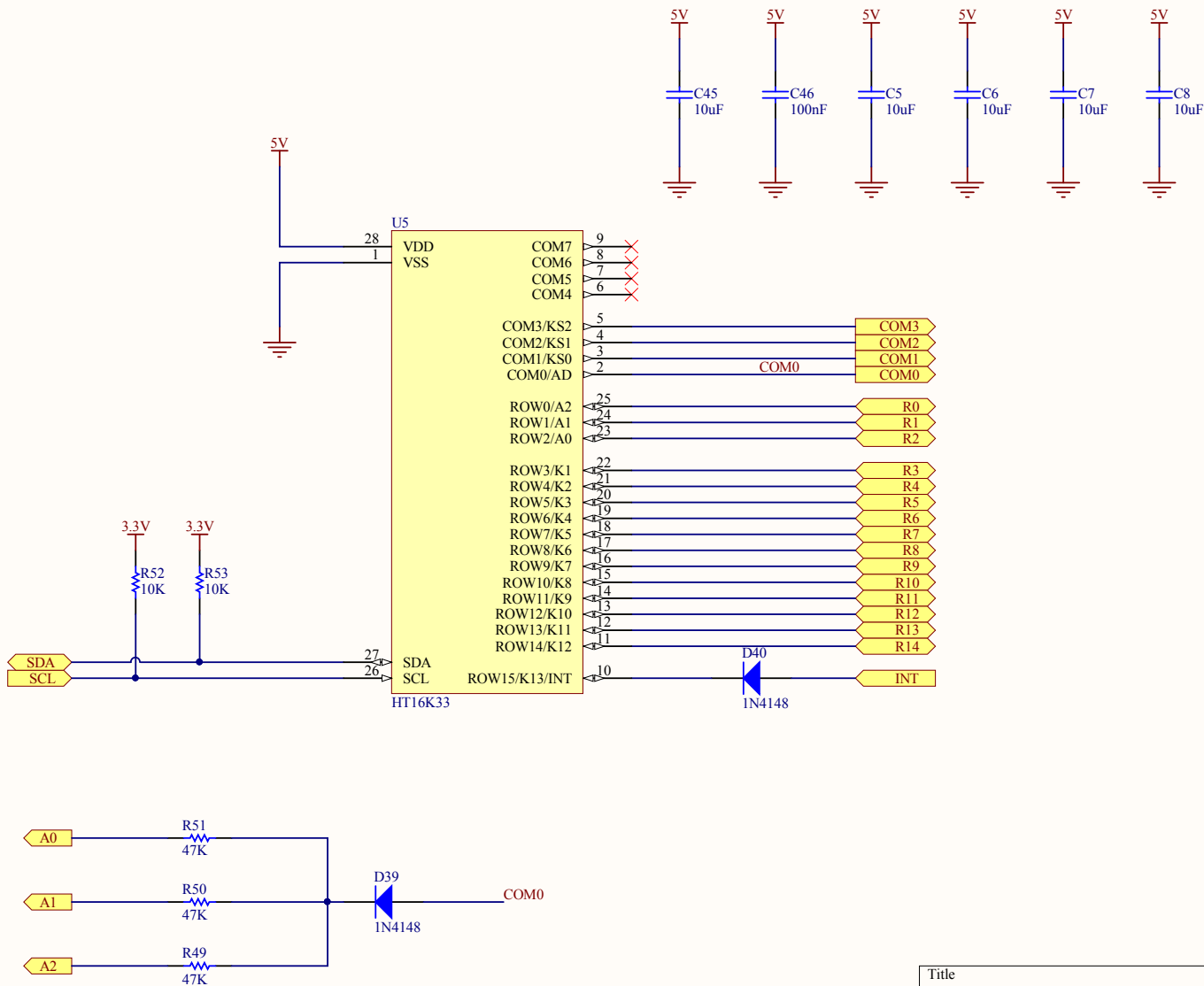
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A

B

C

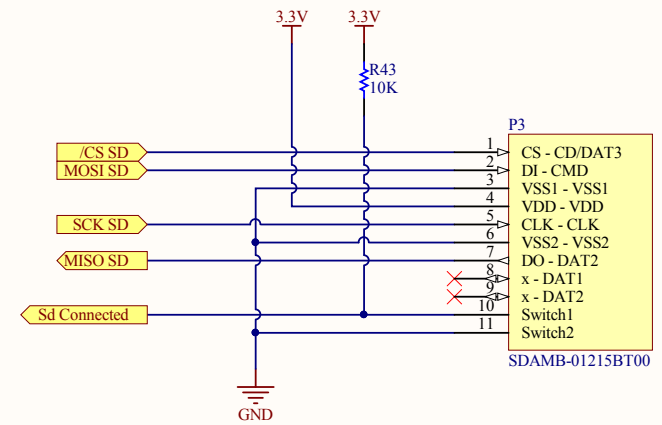
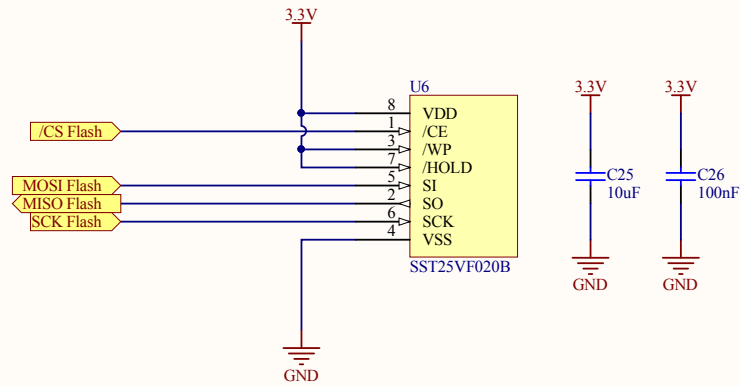
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A

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C

D



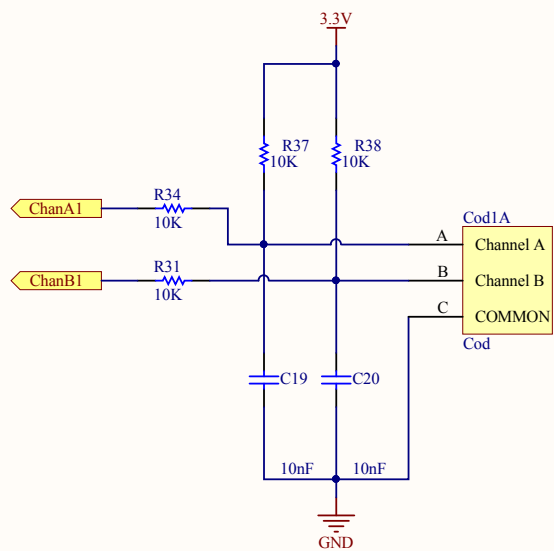
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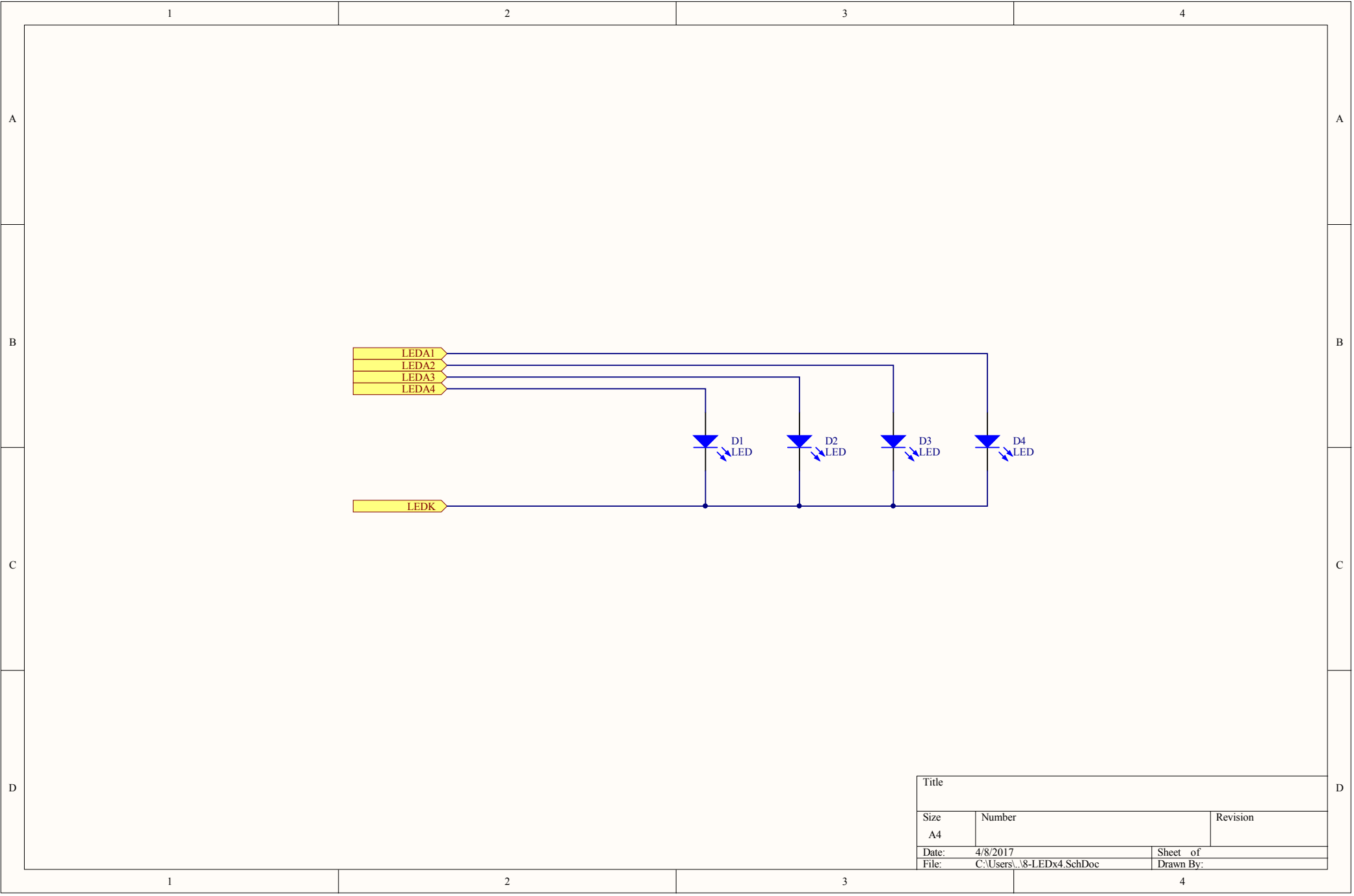
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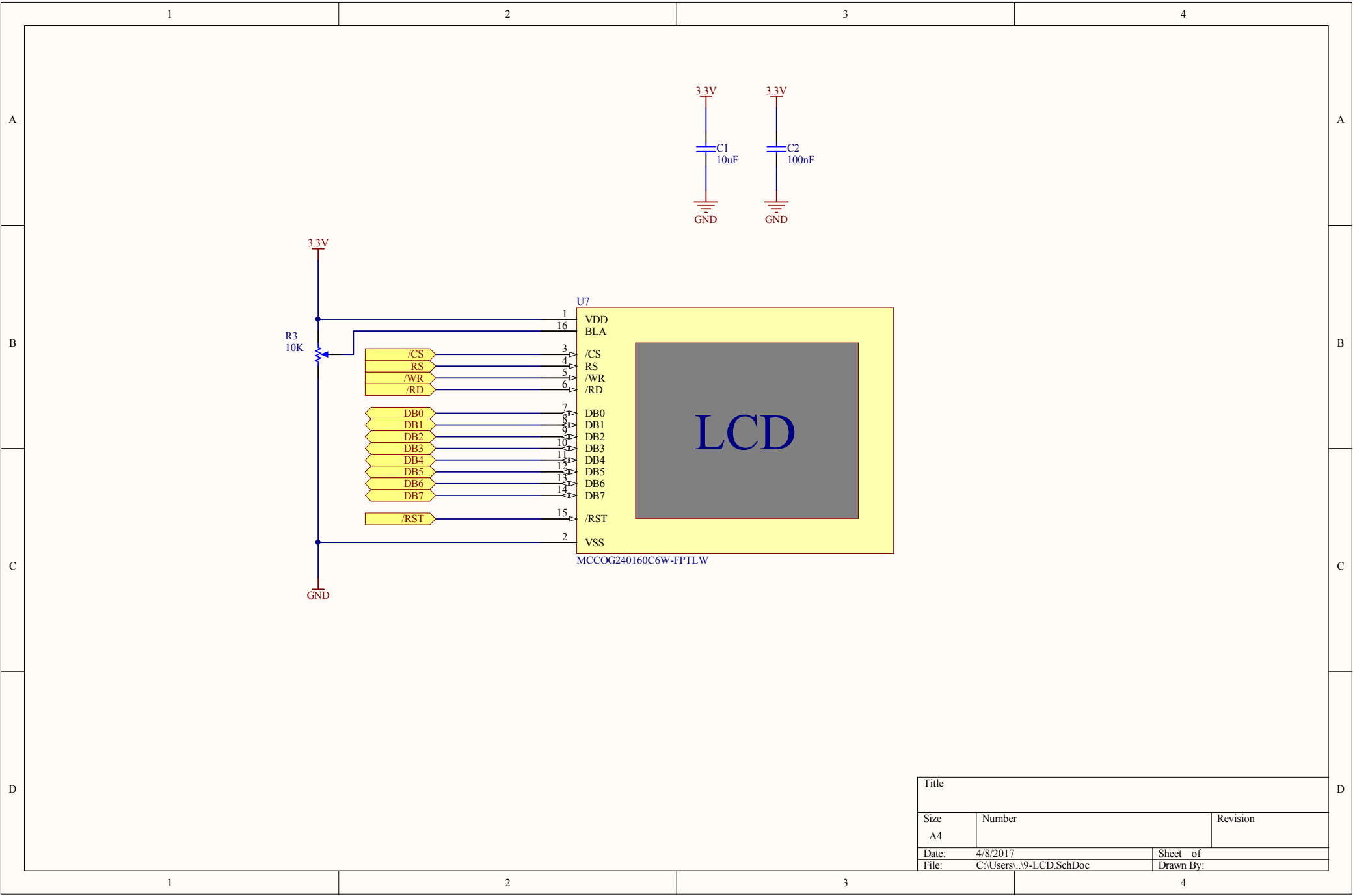
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Comment	Description	Designator	Footprint	LibRef	Quantity
10uF	Capacitor	C1, C3, MCP1, C3, MCP2, C5, HT1, C5, HT2, C6, HT1, C6, HT2, C7, HT1, C7, HT2, C8, HT1, C8, HT2, C10, C11, C25, C27, C30, C32, C34, C42, C43, C45, HT1, C45, HT2	RAD-0.3	Cap	22
100nF	Capacitor	C2, C4, MCP1, C4, MCP2, C9, C12, C26, C28, C29, C31, C33, C35, C41, C44, C46, HT1, C46, HT2	RAD-0.3	Cap	15
10nF	Capacitor	C19_COD1, C19_COD2, C19_COD3, C19_COD4, C19_COD5, C19_COD6, C19_COD7, C19_COD8, C19_Designator, C20_COD1, C20_COD2, C20_COD3, C20_COD4, C20_COD5, C20_COD6, C20_COD7, C20_COD8, C20_Designator	RAD-0.3	Cap	18
22pF	Capacitor	C36, C37	RAD-0.3	Cap	2
Switch		Cod1, Cod2, Cod3, Cod4, Cod5, Cod6, Cod7, Cod8, Cod9		Cod	9
Cod		Cod1_COD1, Cod1_COD2, Cod1_COD3, Cod1_COD4, Cod1_COD5, Cod1_COD6, Cod1_COD7, Cod1_COD8, Cod1_Designator		Cod	9
LED	Diffused Green 3mm LED	D1, LEDA1, D1, LEDA2, D1, LEDA3, D1, LEDA4, D1, LEDB1, D1, LEDB2, D1, LEDB3, D1, LEDB4, D2, LEDA1, D2, LEDA2, D2, LEDA3, D2, LEDA4, D2, LEDB1, D2, LEDB2, D2, LEDB3, D2, LEDB4, D3, LEDA1, D3, LEDA2, D3, LEDA3, D3, LEDA4, D3, LEDB1, D3, LEDB2, D3, LEDB3, D3, LEDB4, D4, LEDA1, D4, LEDA2, D4, LEDA3, D4, LEDA4, D4, LEDB1, D4, LEDB2, D4, LEDB3, D4, LEDB4	LED-0	LED0	32
???	Default Diode	D5, D8, D9	SMC	Diode	3
1N4001	Default Diode	D6, D7, D37, D38	SMC	Diode	4
1M148	Default Diode	D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D39, HT1, D39, HT2, D40, HT1, D40, HT2	SMC	Diode	24
Power Input	Header, 2-Pin	P0	HDR1X2	Header 2	1
MIDI	Header, 5-Pin	P1	HDR1X5	Header 5	1
Program / Debug	Header, 6-Pin	P2	HDR1X6	Header 6	1
SDAMB-012158T00		P3		SDAMB-012158T00	1
Res1???	Resistor	R1, R2	AXIAL-0.3	Res1	2
10K	Potentiometer	R3	VR5	RPot	1
100	Potentiometer	R4	VR5	RPot	1
240	Resistor	R5, R48	AXIAL-0.3	Res1	2
390	Potentiometer	R6	VR5	RPot	1
330	Resistor	R7	AXIAL-0.3	Res1	1
680	Resistor	R8	AXIAL-0.3	Res1	1
10K	Resistor	R31_COD1, R31_COD2, R31_COD3, R31_COD4, R31_COD5, R31_COD6, R31_COD7, R31_COD8, R31_Designator, R34_COD1, R34_COD2, R34_COD3, R34_COD4, R34_COD5, R34_COD6, R34_COD7, R34_COD8, R34_Designator, R37_COD1, R37_COD2, R37_COD3, R37_COD4, R37_COD5, R37_COD6, R37_COD7, R37_COD8, R37_Designator, R38_COD1, R38_COD2, R38_COD3, R38_COD4, R38_COD5, R38_COD6, R38_COD7, R38_COD8, R38_Designator, R43, R46, R52, HT1, R52, HT2, R53, HT1, R53, HT2	AXIAL-0.3	Res1	42
220	Resistor	R44, R45	AXIAL-0.3	Res1	2
47K	Resistor	R49, HT1, R49, HT2, R50, HT1, R50, HT2, R51, HT1, R51, HT2	AXIAL-0.3	Res1	6
SW-PB	Switch	S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23	SPST-2	SW-PB	23
PI32MX150F128B		U1	PI32MX150F128B-soic	PI32MX150F128B	1
Optoisolator2	5 Pin Mini Flat Pack Optocoupler	U2	SOP5(6)	Optoisolator2	1
NL37W207USG		U3		NL37W207USG	1
MCP23S17		U4, MCP1, U4, MCP2		MCP23S17	2
HT16K33		U5, HT1, U5, HT2	HT16K33	HT16K33	2
SST25VF020B		U6		SST25VF020B	1
MCCOG240160C6W-FPTLW		U7		MCCOG240160C6W-FPTLW	1
LM317		U8, U9		LM317	2
8Mhz	Crystal Oscillator	Y1	R38	XTAL	1