Resistors

Resistors

File: Resistors.kicad_sch

Mostly basic parts
for cheap integration

Capacitors

Capacitors

File: Capacitors.kicad_sch

Diodes

Diodes

File: Diodes.kicad_sch

Signal, power switching,
load protection

Opto Electronics

Optoelectronics

File: Optoelectronics.kicad_sch

Optocoupler and LEDs

Transistors

Transistors

File: Transistors.kicad_sch

Signal, power switching,
load protection

Inductors

Inductors

File: inductors.kicad_sch

Regulators

Regulators

File: Regulators.kicad_sch

Connectors

Connectors

File: Connectors.kicad_sch

Nice ICs

ICs

File: Integrated_Circuits.kicad_sch

Microcontrollers

Microcontrollers

File: microcontrollers.kicad_sch

Misc circuits

Misc circuits

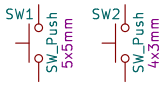
File: misc_circuits.kicad_sch

Misc circuits 2

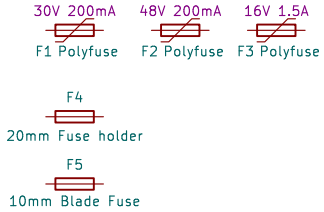
Misc circuits 2

File: misc_circuits2.kicad_sch

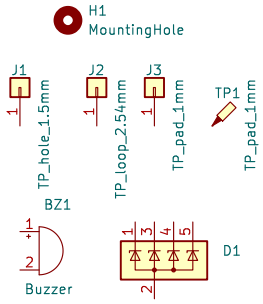
Basic buttons



Fuses



Misc



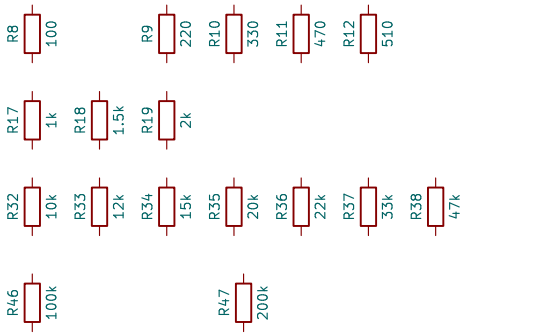
Sheet: /
File: Combined_Common_Components_Pack.kicad_sch

Title:

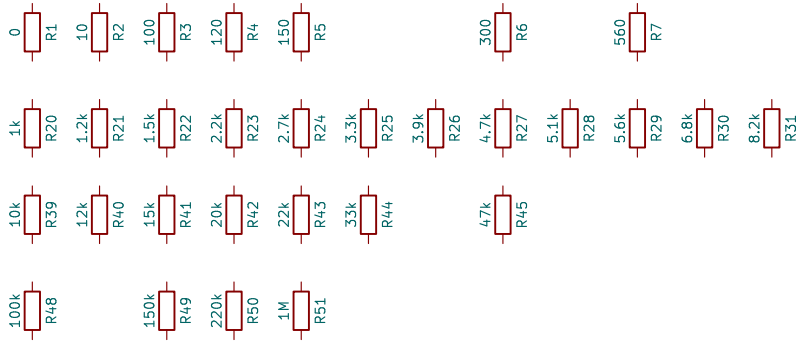
Size: A4	Date:	**Rev:**
KiCad E.D.A. 8.0.9		Id: 1/13

JLCPCB Economic assembly

Basic 0402 1% 62mW Resistors



Basic 0805 1% 125mW Resistors



1206 and 2012

Extended 0402 1% 62mW Resistors

Extended 0805 1% 125mW Resistors

Trimpot 3/4 turn

Sheet: /Resistors/ File: Resistors.kicad_sch		
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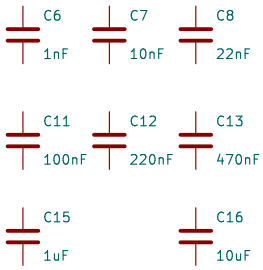
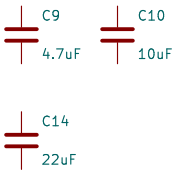
Size: A4	Date:	**Rev:**
KiCad E.D.A. 8.0.9		Id: 2/13

Basic 0805 10% Capacitors

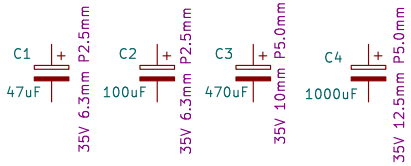
50V



25V



PTH Radial Capacitors

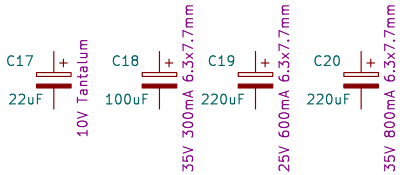


Other PTH Capacitors

Basic 0402 10% Capacitors

50V

SMD Electrolytic Capacitors



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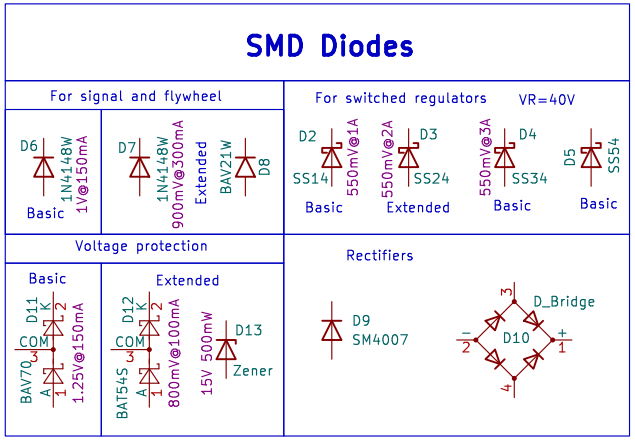
Size: A4	Date:	**Rev:**
KiCad E.D.A. 8.0.9		Id: 3/13

SMD Diodes



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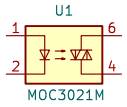

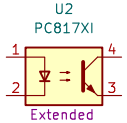

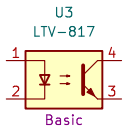

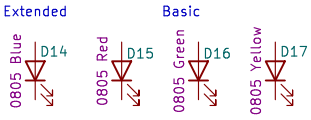

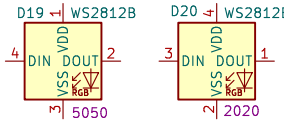

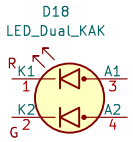

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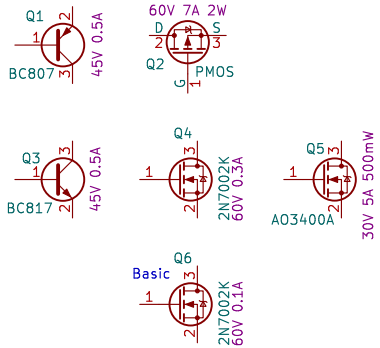

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KiCad E.D.A. 8.0.9		Id: 6/13

Sheet: /Inductors/ File: inductors.kicad_sch		
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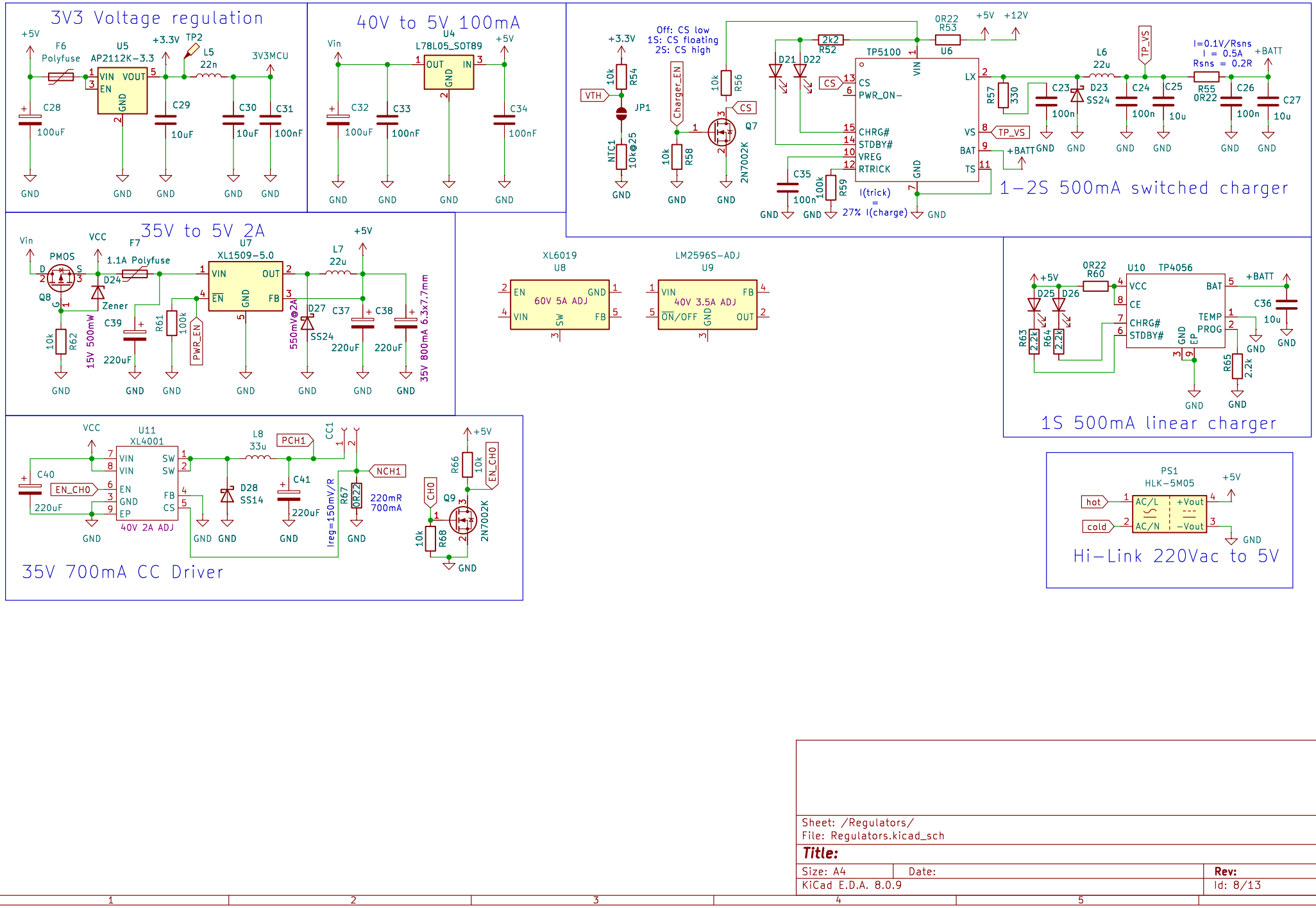
Size: A4	Date:	**Rev:**
KiCad E.D.A. 8.0.9		Id: 7/13



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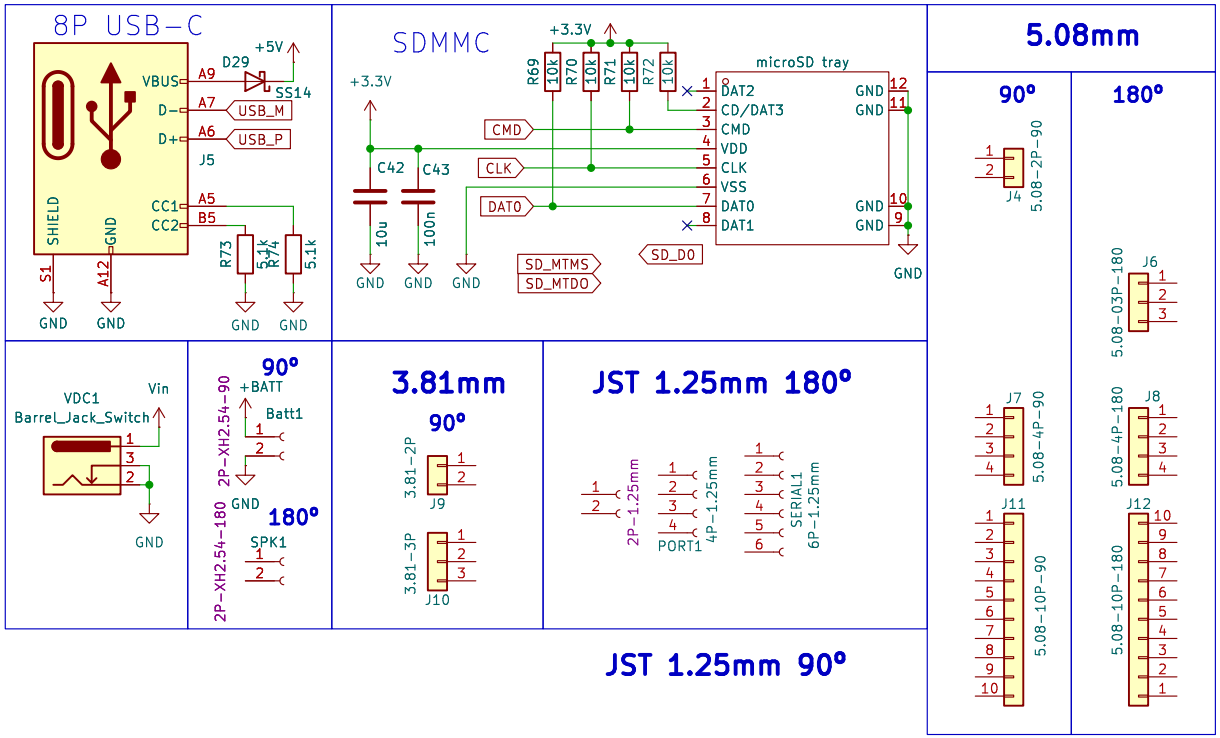

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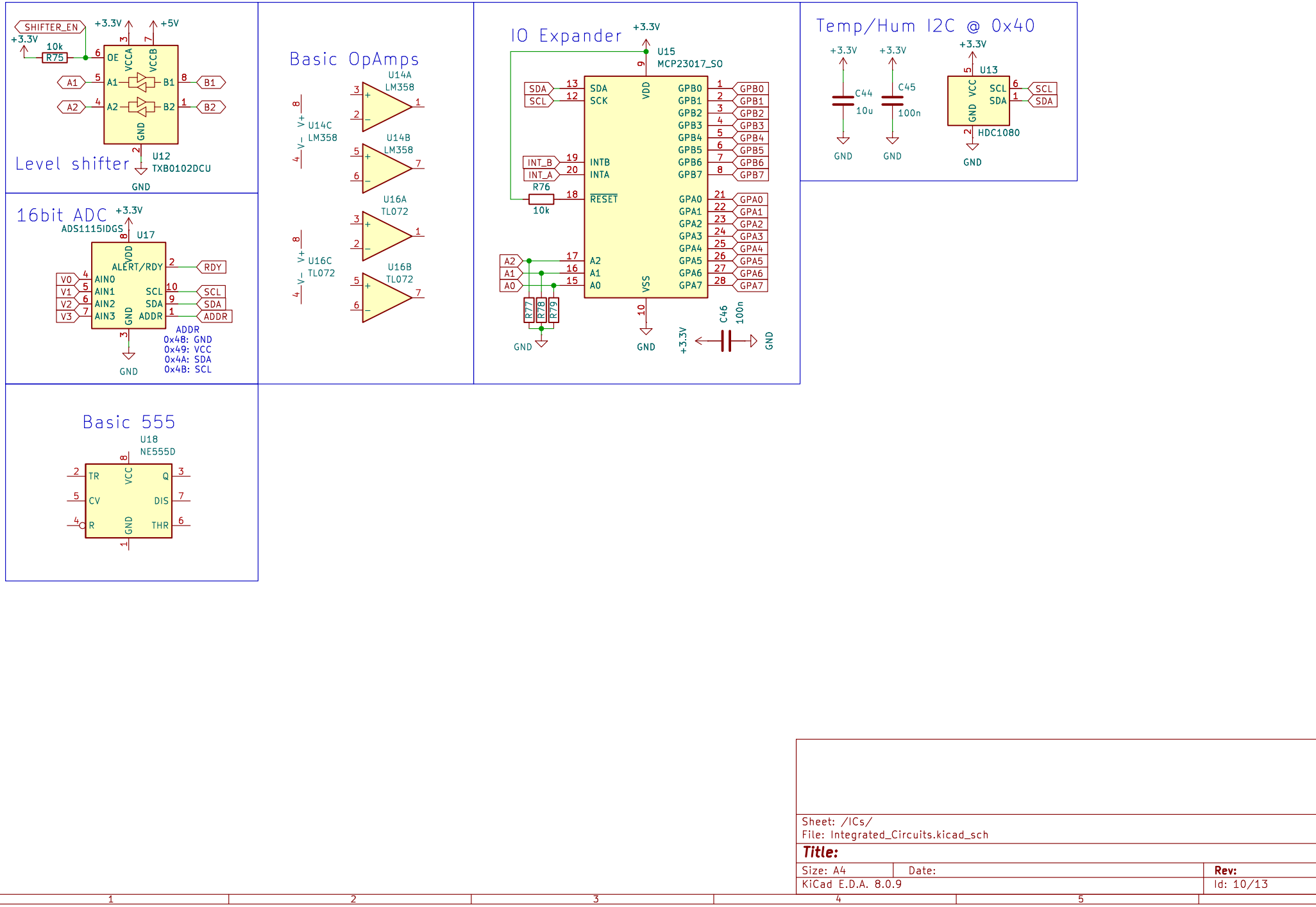

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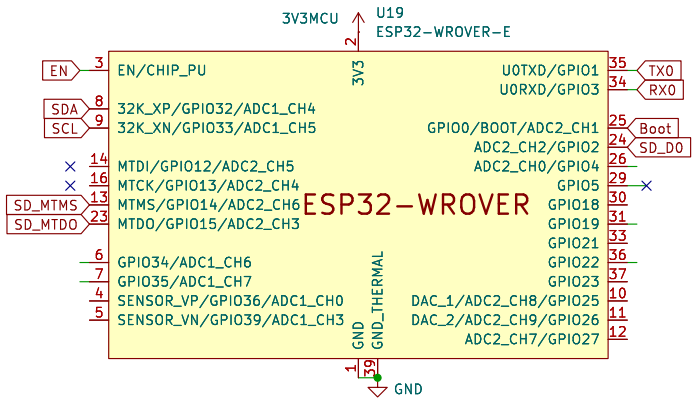
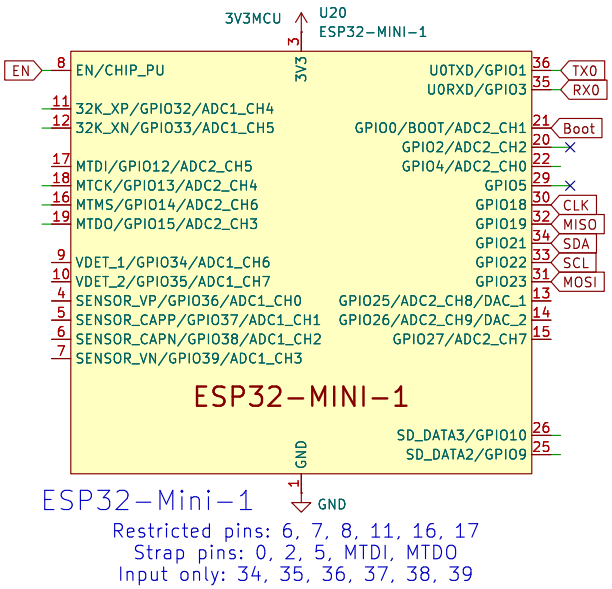
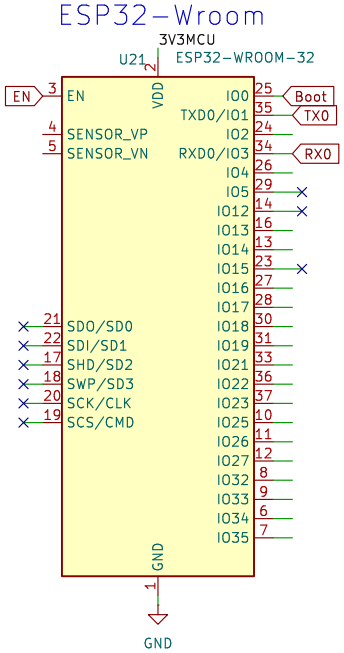




ESP32-Mini-1

Restricted pins: 6, 7, 8, 11, 16, 17
Strap pins: 0, 2, 5, MTDI, MTDO
Input only: 34, 35, 36, 37, 38, 39



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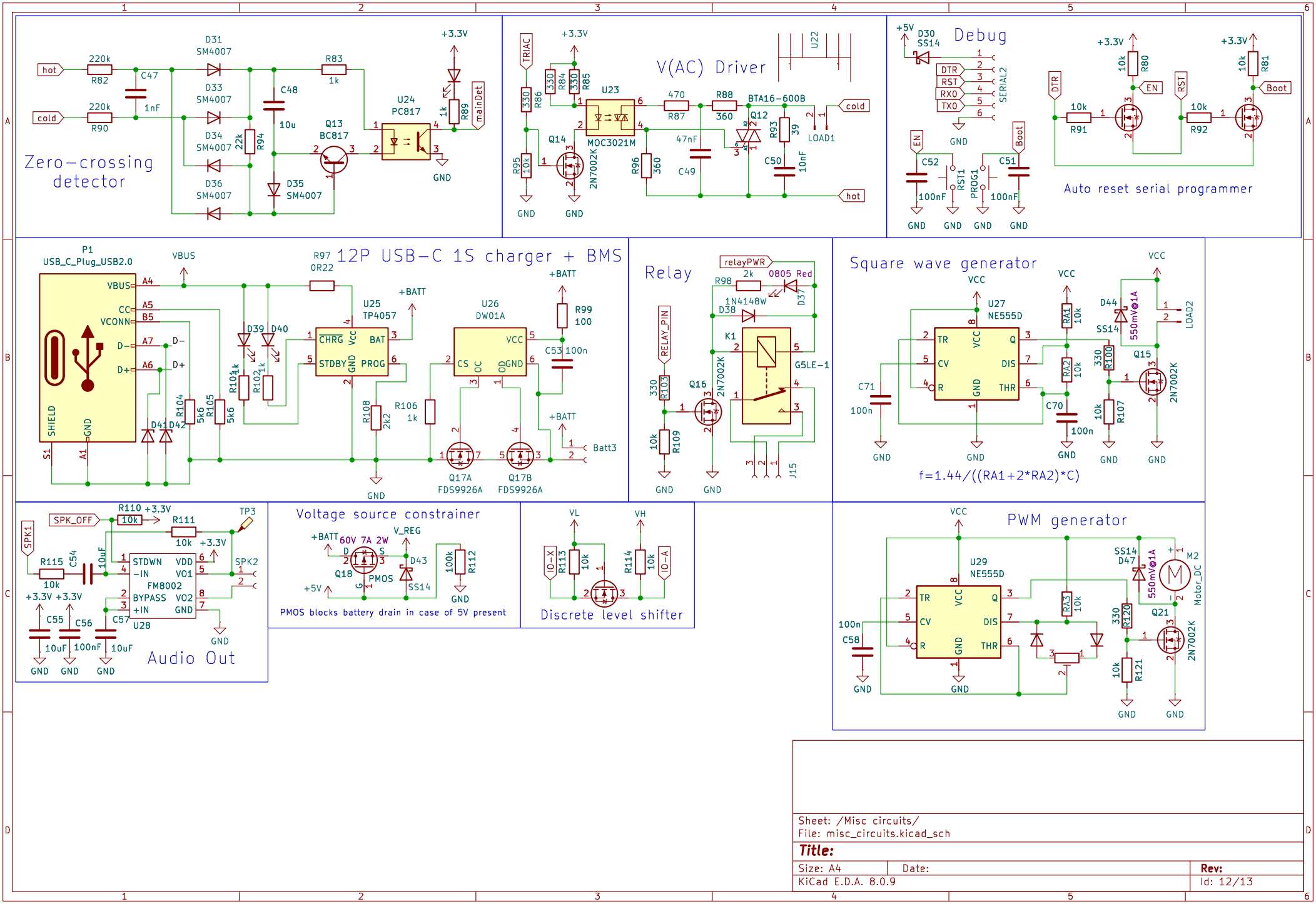
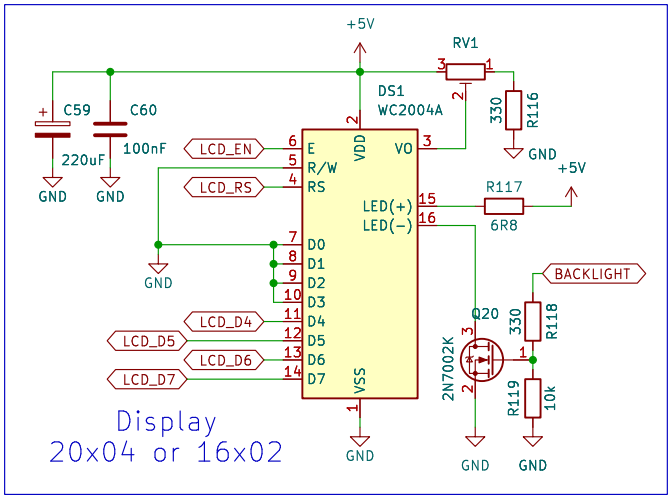

Zero-crossing detector
V(AC) Driver
Debug
Auto reset serial programmer
12P USB-C 1S charger + BMS
Relay
Square wave generator
f=1.44/((RA1+2*RA2)*C)
Audio Out
Voltage source constrainer
PMOS blocks battery drain in case of 5V present
Discrete level shifter
PWM generator
Sheet: /Misc circuits/
File: misc_circuits.kicad_sch
Title:
Size: A4
Date:
Rev:
KiCad E.D.A. 8.0.9
Id: 12/13



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