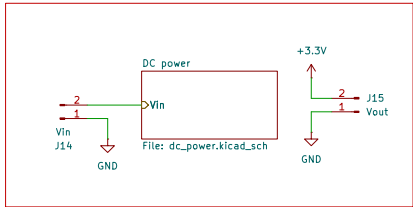
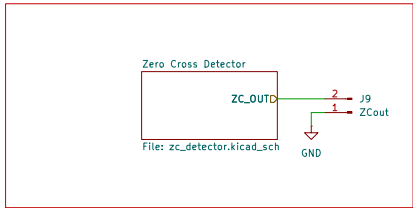


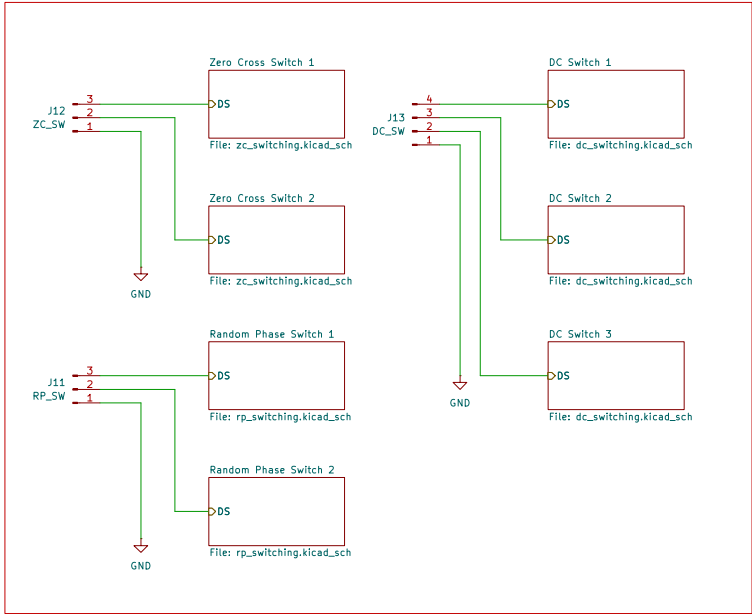
DC Regulation Circuit



Zero Cross Detection Circuit



Switching Circuits



Compadable with 100V systems.
Maximum current 8A.
Capable of switching Inductive loads and Resistive loads.
Depending on the load Heat sinks may be required.
Startup time is around 250ms as C4 should reach equilibrium
for the zero cross detector circuit.



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Sheet: /
File: ac_switching.kicad_sch

Title: AC switching circuit

Size: A4

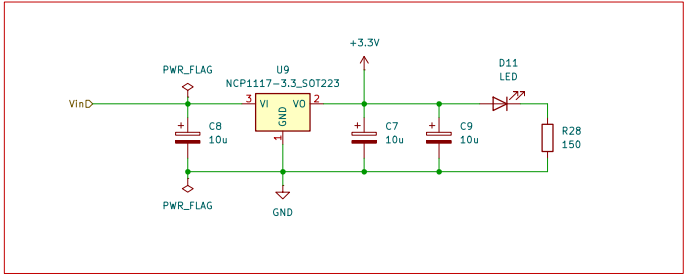
Date: 2025-04-01

Rev: 0

KiCad E.D.A. 9.0.0

Id: 1/10

DC Power regulation Circuit



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Sheet: /DC power/
File: dc_power.kicad_sch

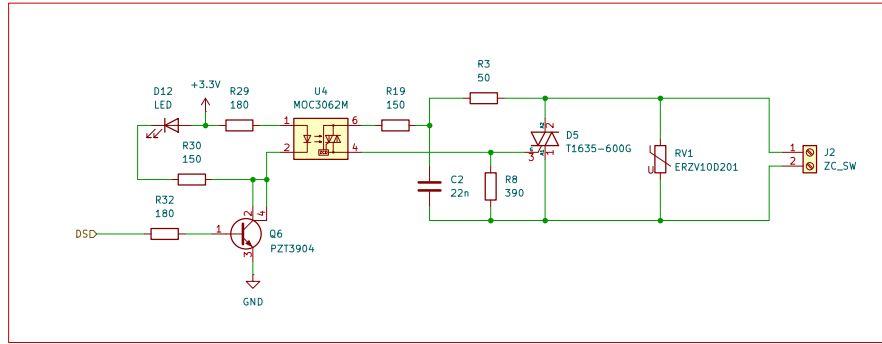
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Size: A4
KiCad E.D.A. 9.0.0

Date: 2025-03-21

Rev: 0
Id: 2/10

Zero Cross Switching



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Sheet: /Zero Cross Switch 1/
File: zc_switching.kicad_sch

Title:

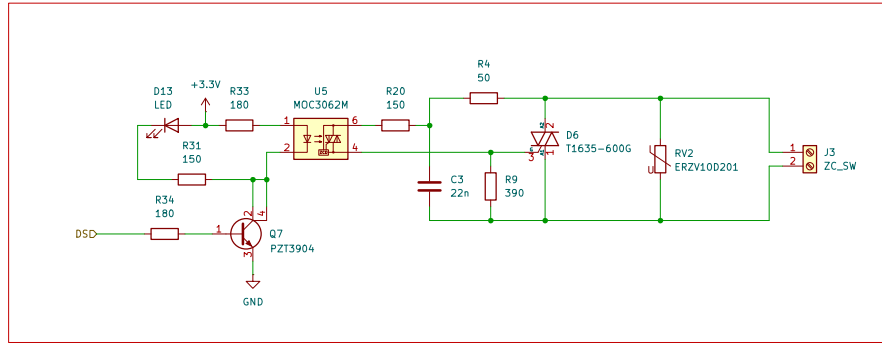
Size: A4 Date: 2025-03-31

KiCad E.D.A. 9.0.0

Rev: 0

Id: 3/10

Zero Cross Switching



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Sheet: /Zero Cross Switch 2/
File: zc_switching.kicad_sch

Title:

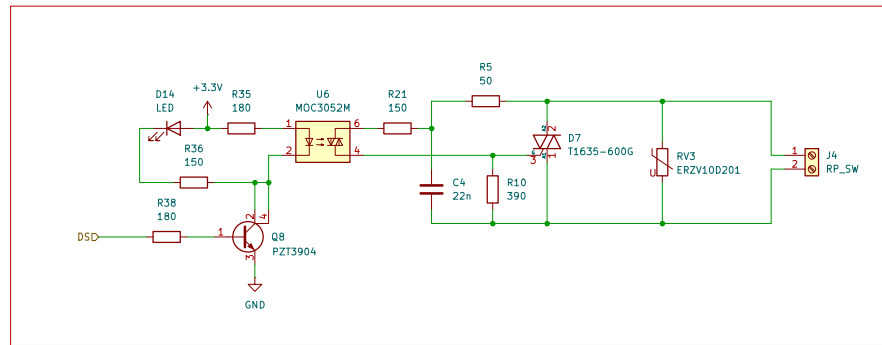
Size: A4 Date: 2025-03-31

KiCad E.D.A. 9.0.0

Rev: 0

Id: 4/10

Random Phase Switching



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File: rp_switching.kicad_sch

Title:

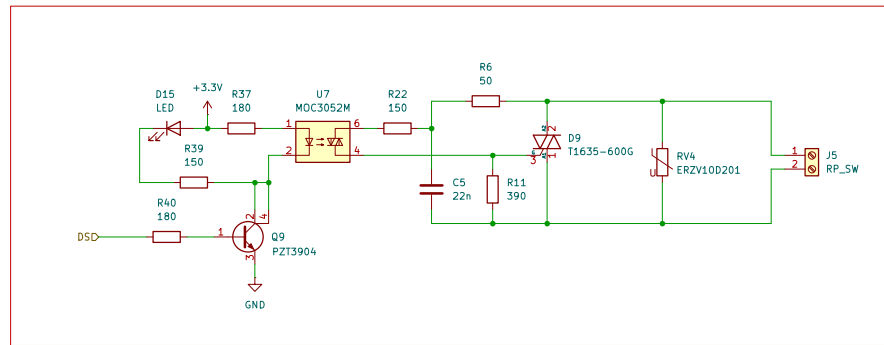
Size: A4 Date: 2025-03-21

KiCad E.D.A. 9.0.0

Rev: 0

Id: 5/10

Random Phase Switching



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Sheet: /Random Phase Switch 2/
File: rp_switching.kicad_sch

Title:

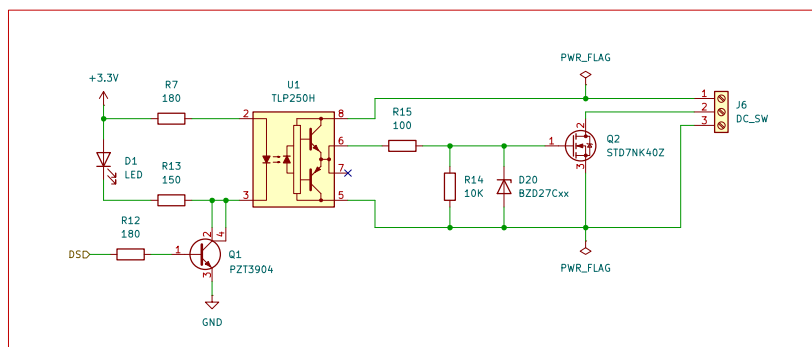
Size: A4 Date: 2025-03-21

KiCad E.D.A. 9.0.0

Rev: 0

Id: 6/10

High Speed DC Switching



Sheet: /DC Switch 1/
File: dc_switching.kicad_sch

Title:

Size: A4

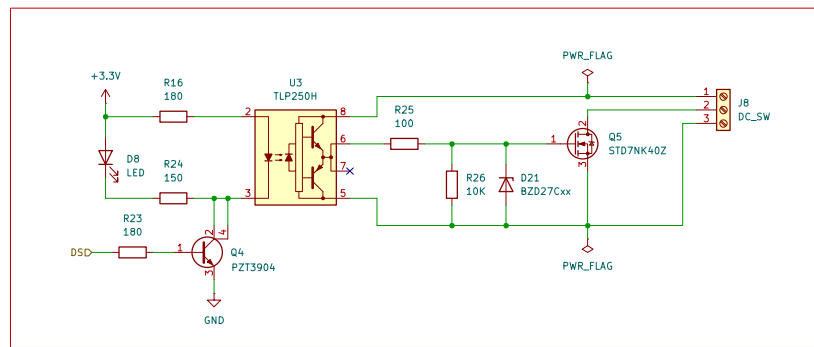
Date:

Rev:

KiCad E.D.A. 9.0.0

Id: 7/10

High Speed DC Switching



Sheet: /DC Switch 2/
File: dc_switching.kicad_sch

Title:

Size: A4

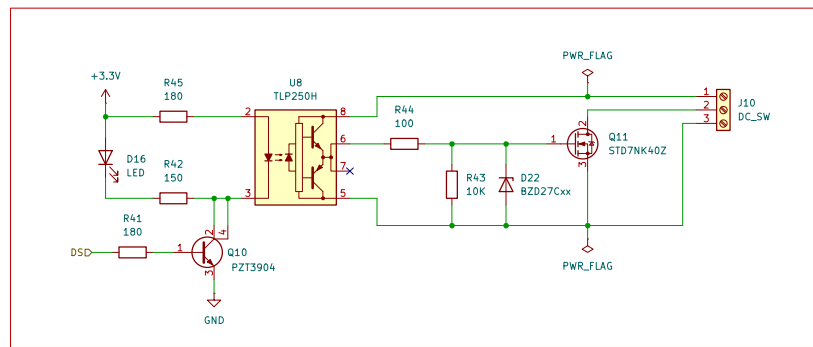
Date:

Rev:

KiCad E.D.A. 9.0.0

Id: B/10

High Speed DC Switching



Sheet: /DC Switch 3/
File: dc_switching.kicad_sch

Title:

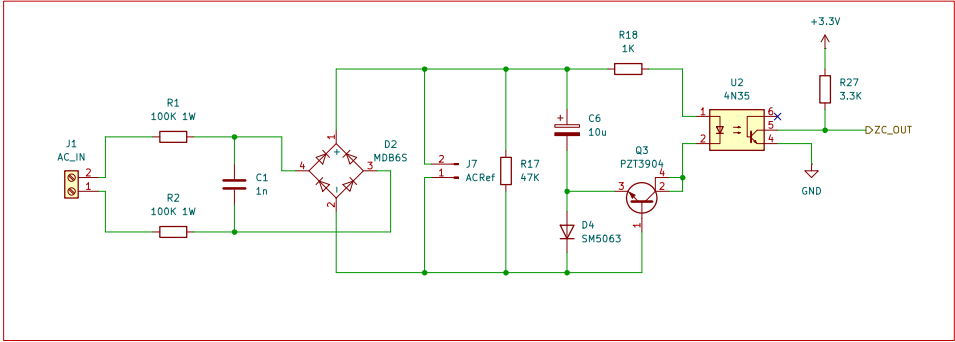
Size: A4
KiCad E.D.A. 9.0.0

Date:

Rev:

Id: 9/10

Zero Cross Detection Circuit



キムラシール株式会社		
Sheet: /Zero Cross Detector/ File: zc_detector.kicad_sch		
Title:		
Size: A4	Date: 2025-03-21	Rev: 0
KiCad E.D.A. 9.0.0		Id: 10/10