

Notes

- * Both FETs are encapsulated in plastic
- no isolation pad / shoulders needed
- use heat transfer pad / paste

The regulator gives protection to inrush
Max V across the 22r resistor is $V_Z - V_{GS} = 10 - 4 = 6$
Max current is $6/22 = 270\text{mA}$

Sheet: /PowerSupply/
File: PowerSupply.kicad_sch

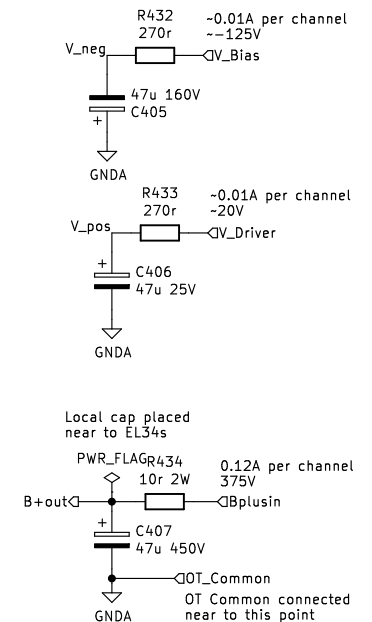
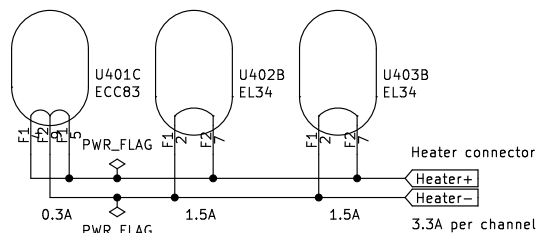
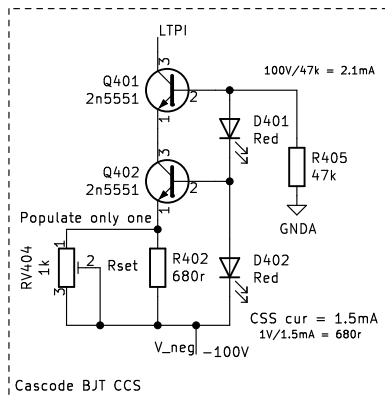
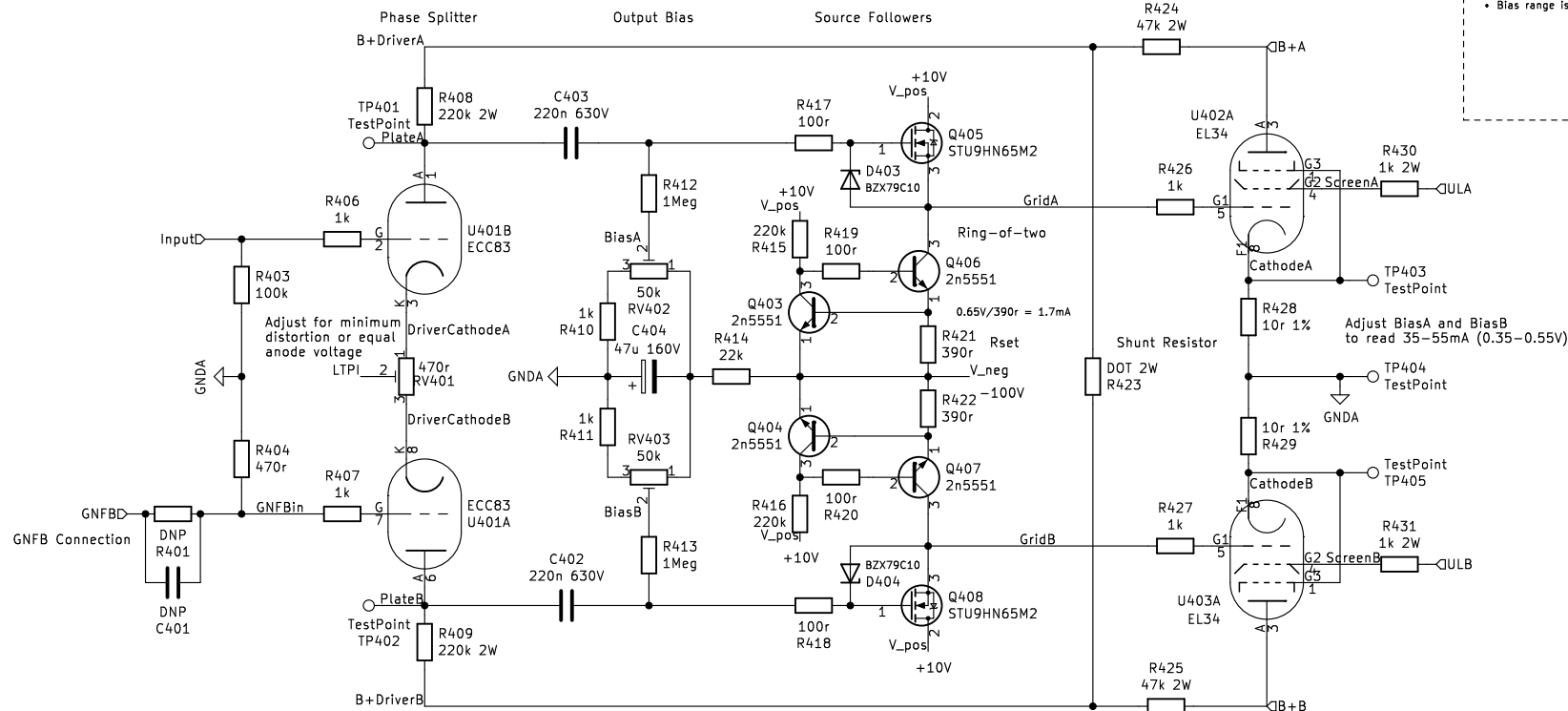
Title: Baby Huey – "Engineer's Version" – Power Supply

Size: A4 Date:
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Rev:
Id: 2/4

Notes / Questions

- What value for Shunt Resistor? 22k or 33k according to forum. 39k is too large.
- Could increase the source follower current to 2.4mA – use 270r
- However, lower starts to stress the 2N5551 dissipation limit.
- Bias range is -1V to -70V



Sheet: /Right/

File: Channel.kicad_sch

Title: Baby Huey – "Engineer's Version" – Channel

Size: A4

Date:

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