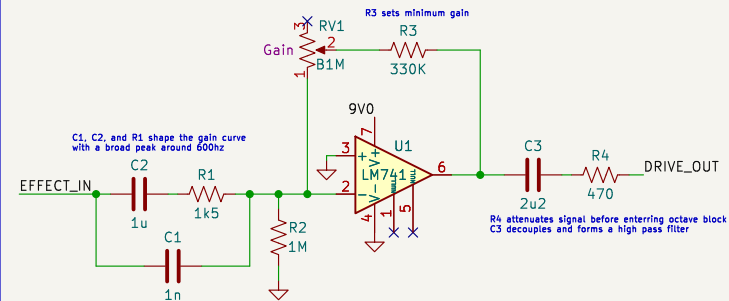
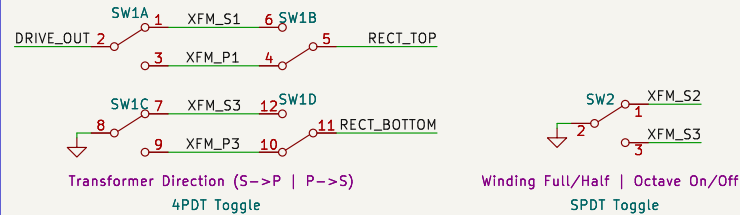


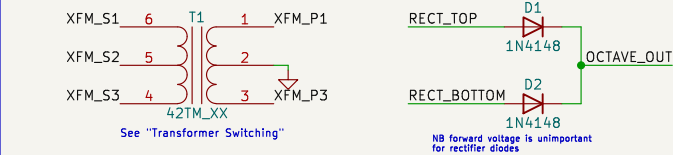
Drive



Transformer Switching



Octave



Switching Explanation

4PDT toggle switches direction of signal flow through transformer.

In default mode:

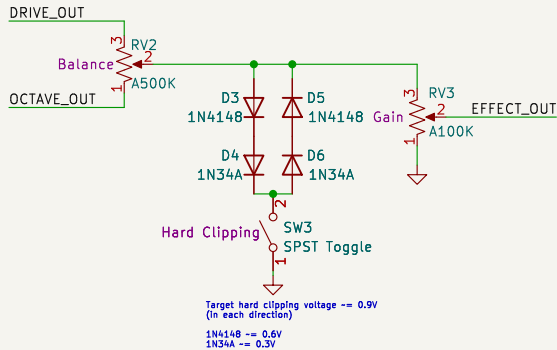
- Signal enters secondary winding
- Rectifier outputs from primary winding
- SPDT controls whether signal uses half winding (default for full effect strength) or lifts center tap ground (full winding) -> more subtle octave effect)

In alternate mode:

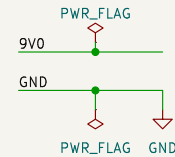
- Signal enters primary winding
- Rectifier outputs from secondary winding
- SPDT controls whether octave effect is enabled at all (grounds one diode) [TODO: verify this works]

(This assumes a transformer with Primary > Secondary turn counts)

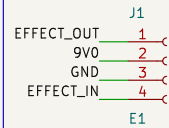
Balance, Hard Clipping, and Output



Power



Connectors



github.com/whbeers/ensemble

Sheet: /
File: ensemble.kicad_sch

Title: Ensemble fuzz effect

Size: A4	Date: 2023-03-19	Rev: v0.02
KiCad E.D.A. kicad-cli 7.0.1-3b83917a11-172-ubuntu22.10.1		Id: 1/1