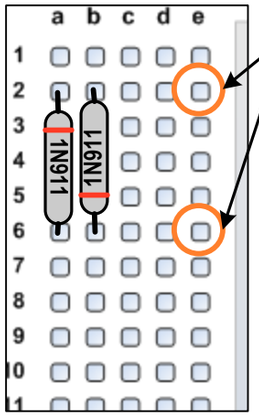
Diode Clipping Mods!

You can mod just about anything. Many of the beavis board projects have mods notes that talk about diode changes for clipping. This page shows you how to implement those mods, and hopefully a few other ideas that will be useful as you hack through projects.

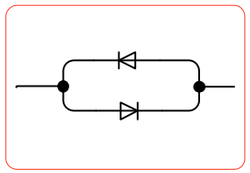


standard clipping

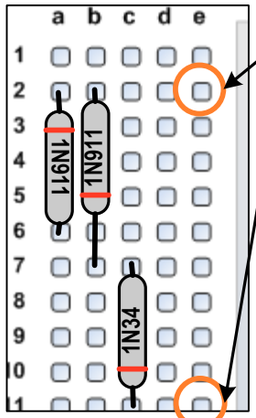


connection points

Here we have standard 'back-to-back' diode clipping. The ends hook up to connection points somewhere in the schematic.

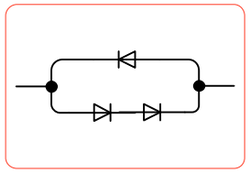


asymmetric clipping 2

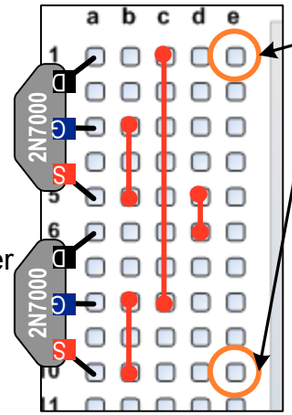


connection points

You can also try different part types. Here's a 1N914 on one side and then a 1N914 into a 1N34 germanium for another type of asymmetrical clipping.

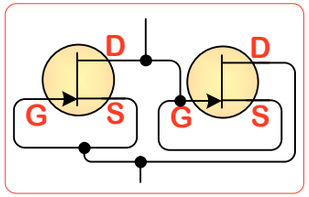


mosfet clipping

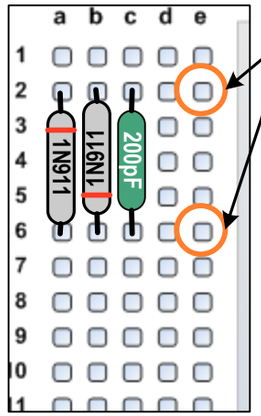


connection points

MOSFET clipping is the most boutiquey of all the types. Try it with 2N7000 fets, you may like it. This is the clipping arrangement found in the OCD pedal.

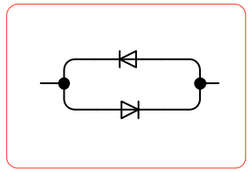


using a cap

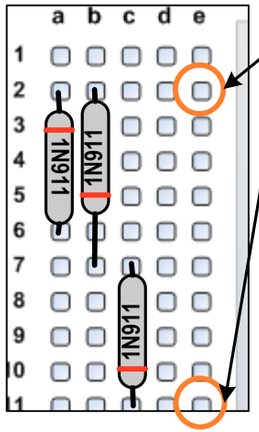


connection points

You can use a small value capacitor (usually in the picoFarad range) to smooth the clipping. Try different cap values with different clipper types.

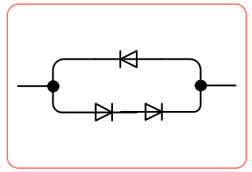


asymmetric clipping

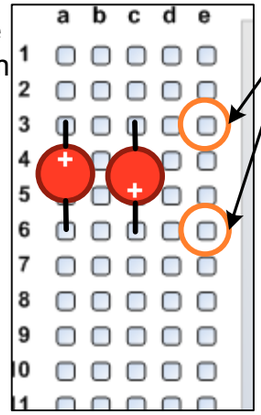


connection points

Now let's make some changes. Let's add an additional diode to one side. This will result in uneven clipping, otherwise known as asymmetrical clipping.

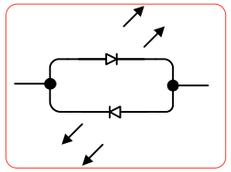


LED clipping

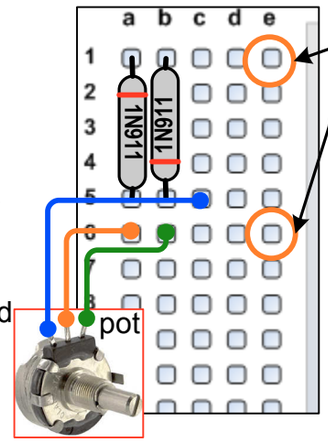


connection points

LEDs make great clippers, especially for distortion type sounds. Different color LEDs will yield slightly different sounds.

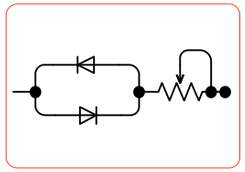


warp control

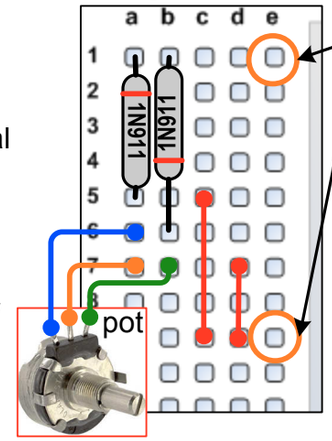


connection points

Use a pot to alter the amount of signal going to the clipper pair, or to just one side. This is from Jack Orman's site: www.muzique.com/lab/warp.htm

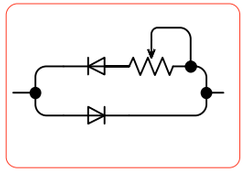


warp control II



connection points

Here's another variation on the warp control, limiting the current to only one side of the clipper pair.



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beavis board project