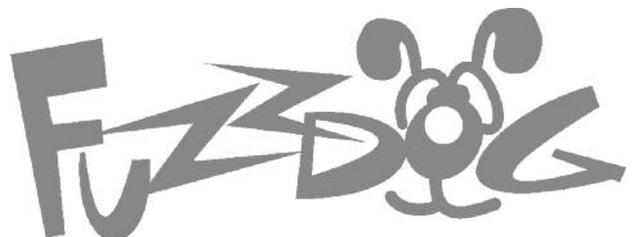
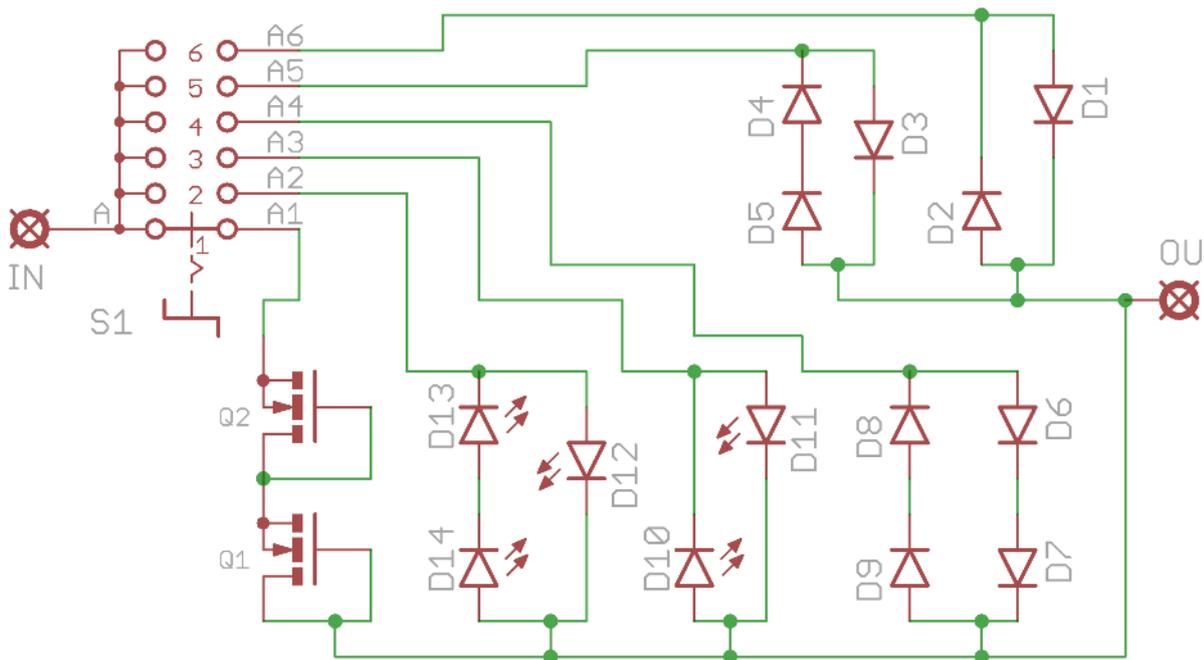


# Clipping Switcher

Swapping diodes made easy



# Schematic



There is no BOM as the diodes used are entirely up to you.

The schematic shows how the diodes are configured in sets, i.e. when the switch is in position A3 you have D10 and D11 in the circuit.

Note that there are different configurations on the board, including symmetrical pairs, symmetrical quads, and asymmetrical sets. You don't have to follow these configurations, they've just been added to make the board as versatile as possible.

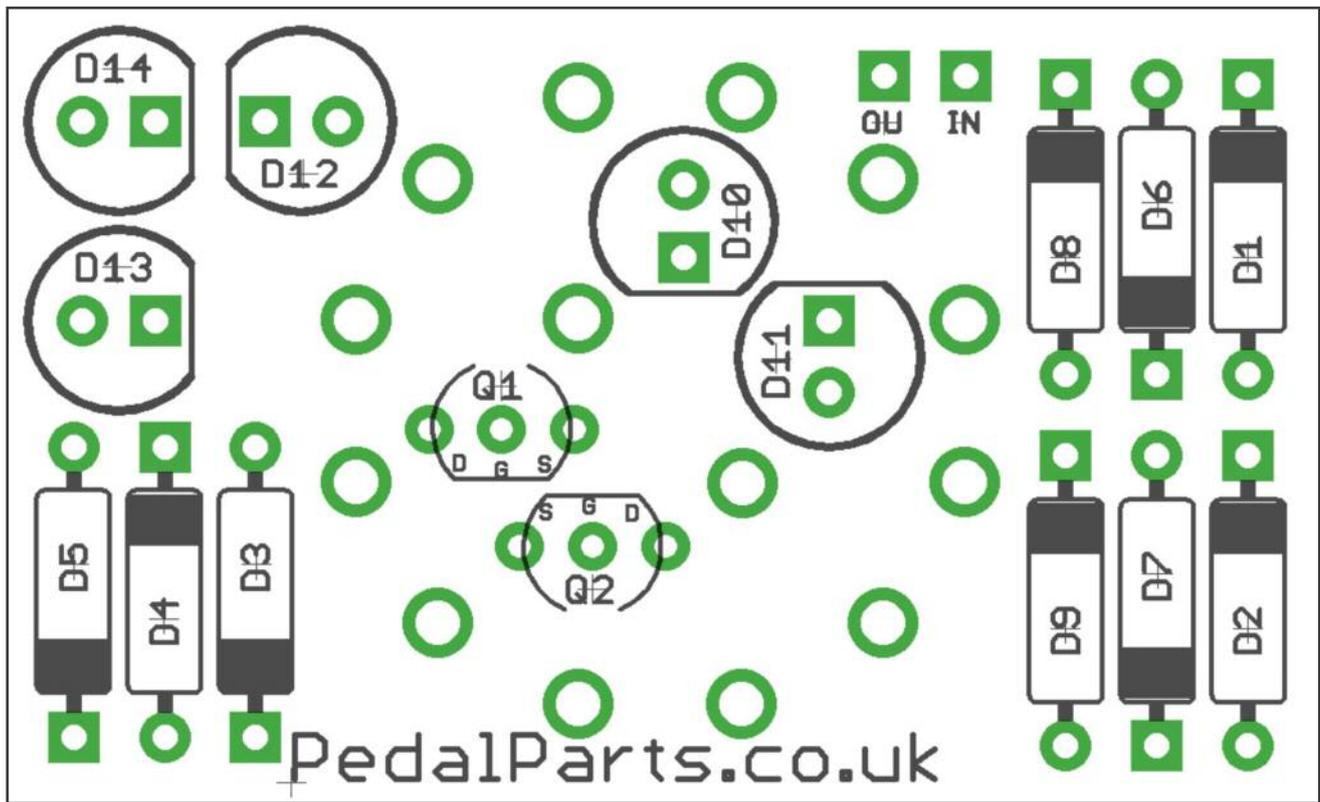
For instance, you may want to have a symmetrical pair in position A5, which is actually three diodes in an asymmetrical pattern. Simply use D3 and D4 and put a jumper wire in place of D5 to make a pair.

Similarly, there are places on the board for LEDs and FETs. You can use these places for normal diodes - on the front cover image you can see D10 and D11 have germanium diodes placed upright in those spots.

To use the FET positions for normal diodes, just use the two outer pads on each, ignoring the middle one.

## FETS

Q1 and Q2 are set up for FETs with a DGS pinout (same as BS170). Take note of what your chosen FET pinout is as it may differ. For instance, 2N7000 would have to be reversed.

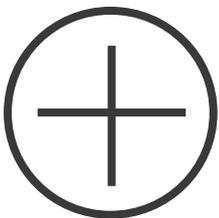


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You don't have to use all six switch positions. The Alpha 2P6T rotary switch can be adjusted to move between two and six clicks.

When you remove the fixing nut you'll see a metal washer with a locator tab which sits in a hole within the plastic body. Moving this tab into a hole further counter-clockwise will reduce the amount of clicks. Move it back two holes and you'll only have four different positions instead of six, so will only utilise positions A1-A4.

Align this cylindrical tab with the point on the board marked



# Connecting to your circuit

In this example we're switching the clipping diodes on the op-amp of the Little Screamer - D1 and D2 in the schematic below.

Simply leave out the clipping diodes from the main PCB and connect the IN and OUT wires across ONE of the diode positions. There's no need to place a jumper wire across the other diode position. ALL the clipping is being done on the switcher PCB.

