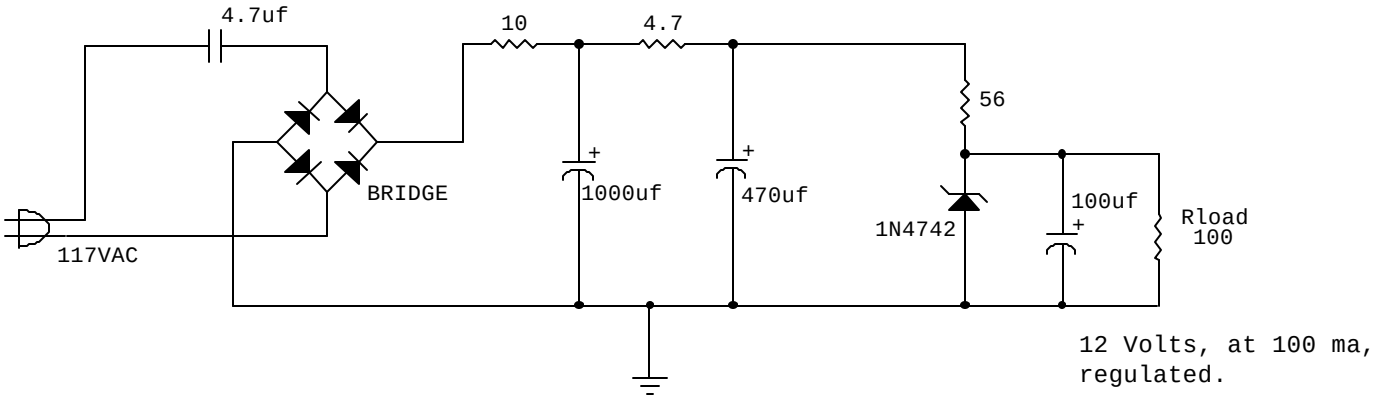

"Transformerless" Power Supply

This power supply uses the reactance of a non-polarized capacitor at 60hz to step-down the voltage from the normal 117VAC level to about 20 volts or so, which is rectified by the diode bridge and fed to a simple, pi-style RC filter network.

The 20 volt current source is fed into the zener regulator, which keeps the output at 12 volts. The output will source about 100ma.

NOTE: If you fabricate this circuit, BE CAREFUL SINCE ONE SIDE OF THE AC LINE IS CONNECTED TO THE CIRCUIT'S COMMON RAIL.