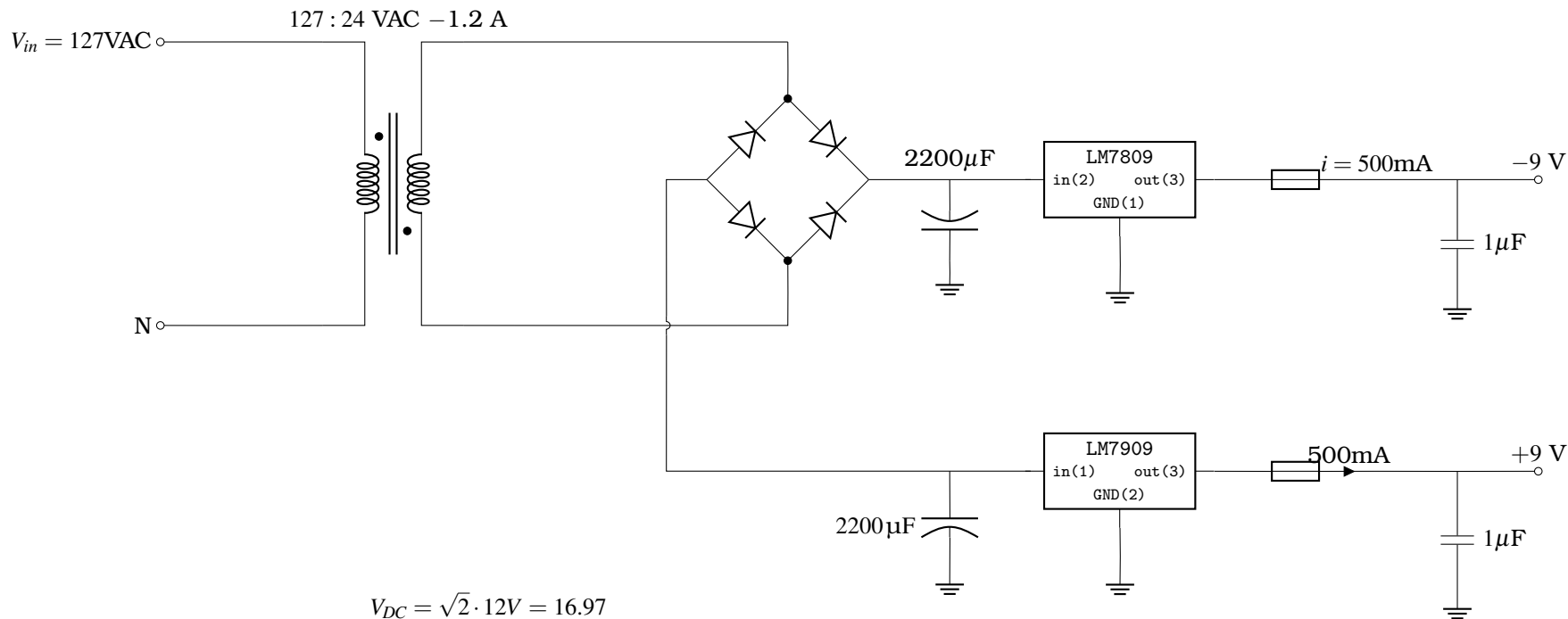


Bipolar Power-supply $\pm 9\text{ V}$



$$V_{DC} = \sqrt{2} \cdot 12V = 16.97$$

$$\text{if } i_{max} = 500mA \Rightarrow R_L = \frac{16.97V}{500mA} = 34\Omega$$

$$V_{r(pp)} = (0.1)(16.97V) = 1.697\text{ V}$$

$$V_{r(pp)} = \frac{V_m}{2fR_L C_e} \Rightarrow C_e = \frac{V_m}{2fR_L V_{r(pp)}} = \frac{16.97V}{2(60)(34)(1.697)} = 2450 \times 10^{-6} \approx 2200\mu F (\text{commercial})$$