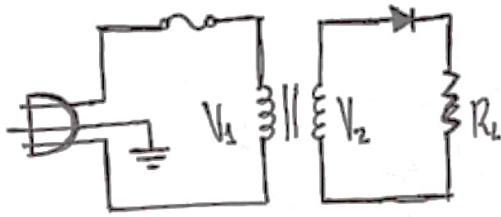


- Retificador de meia onda:

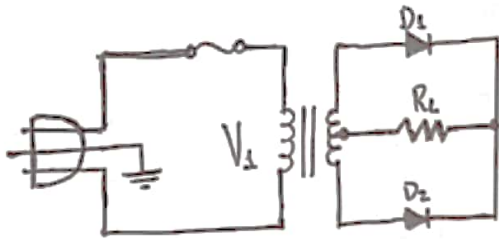
$$\frac{n_1}{n_2} = \frac{V_1}{V_2}$$



$$V_p = V_2(\text{pico}) - 0,7 = V_2\sqrt{2} - 0,7$$

$$V_{cc} = \frac{V_p}{\pi}$$

- Retificador de onda completa:

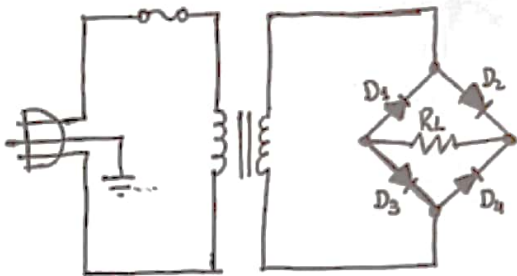


$$V_{SAÍDA(\text{pico})} = \frac{V_2\sqrt{2}}{2} - 0,7$$

$$V_{cc} = \frac{2V_{SAÍDA(\text{pico})}}{\pi}$$

$$I_{ccD} = \frac{I_{ccRL}}{2}$$

- Retificador em ponte:



$$V_{SAÍDA(\text{pico})} = V_2\sqrt{2} - 1,4$$

$$V_{cc} = \frac{2V_{SAÍDA(\text{pico})}}{\pi}$$

$$I_{ccD1} = \frac{I_{ccRL}}{2}$$

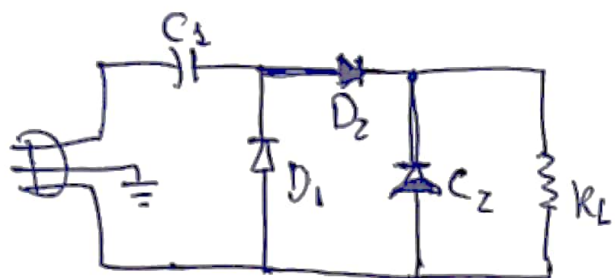
- Ondulação:

$$V_{ond} = \frac{I_{cc}}{fC}$$

$$V_{cc} = \frac{2fRCV_{máx}}{1 + 2fRC}$$

f : 60Hz (meia Onda).
120Hz (onda completa ou em ponte).

Dobrador de meia onda



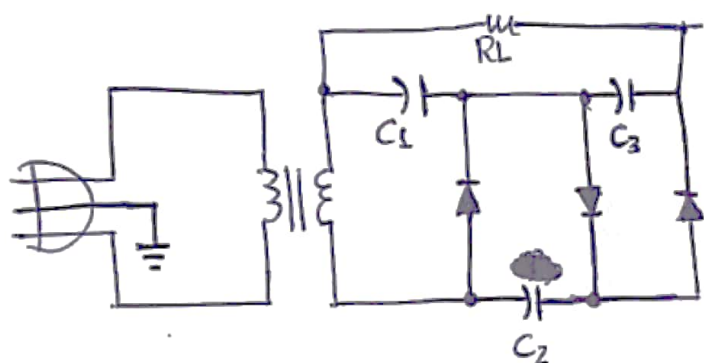
$$V_{RL} = 2 \cdot V_2 \sqrt{2}$$

$$PIV \geq 2 V_2 \sqrt{2}$$

$$V_{C1} = V_2 \sqrt{2}$$

$$V_{C2} = 2 V_2 \sqrt{2}$$

Triplicador de meia onda



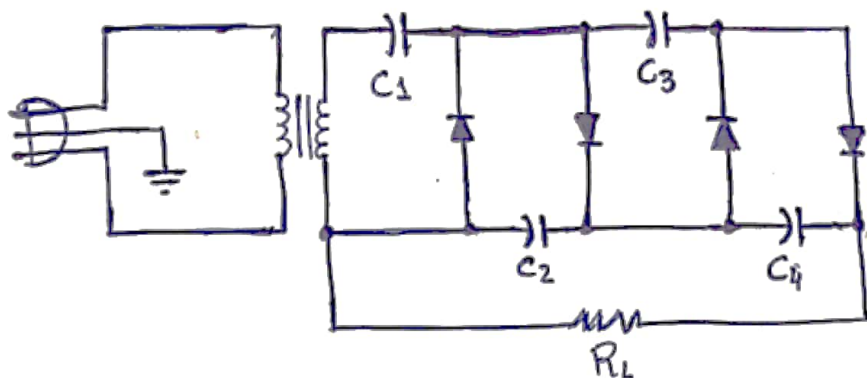
$$V_{RL} = 3 V_2 \sqrt{2}$$

$$V_{C1} = V_2 \sqrt{2}$$

$$PIV \geq 2 V_2 \sqrt{2}$$

$$V_{C2} = V_{C3} = 2 V_2 \sqrt{2}$$

Quadruplicador



$$V_{RL} = 4 V_2 \sqrt{2}$$

$$V_{C1} = V_2 \sqrt{2}$$

$$PIV \geq 2 V_2 \sqrt{2}$$

$$V_{C2} = V_{C3} = V_{C4} = 2 V_2 \sqrt{2}$$