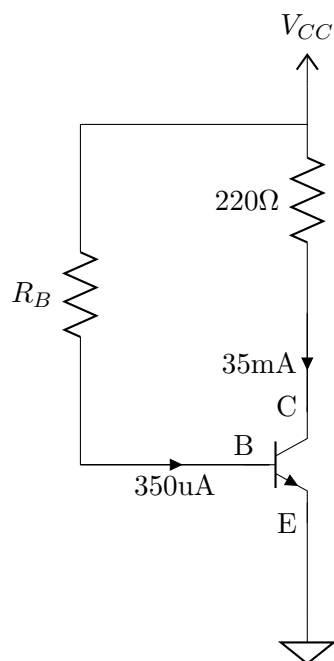


Preparatório 8 - Eletrônica

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$$V_{CE} = 5V$$
$$V_{BE} = 0.7V$$

4.1-

$$V_{CE} = V_{CC} - I_C R_C$$
$$5 = V_{CC} - 35 \cdot 10^{-3} \cdot 220$$
$$V_{CC} = 12.7V$$

4.2-

$$V_{CC} = R_B \cdot I_B + V_{BE}$$
$$12.7 = R_B \cdot 350 \cdot 10^{-6} + 0.7$$
$$R_B = 34,286 \text{ K}\Omega$$

4.3-

$$P=RI^2$$

$$P_C = R_C \cdot I_C^2$$

$$P_C = 220 \cdot (35 \cdot 10^{-3})^2$$

$$P_C = 0.27W \text{ Atende}$$

Calculo análogo para P_B

$$P_B = 34,286K\Omega \cdot (350 \cdot 10^{-6})^2$$

$$P_B = 0.004W \text{ Atende}$$

4.4-

$$P_{diss} = V_{CE} \cdot I_C$$

$$P = 5.35 \cdot 10^{-3}$$

$$P = 0.175W$$

É compatível