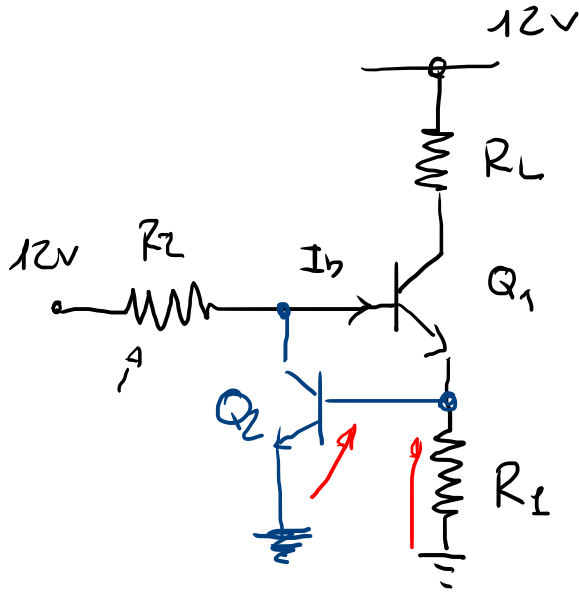


REGOLATORE di I

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$$I_{max} = 20 \text{ mA}$$

$$R_1 = \frac{0,7 \text{ V}}{I_{max}} = \frac{0,7 \text{ V}}{20 \text{ mA}} = 35 \Omega$$

$$Q_1 = Q_2 = 2N2222 \sim 120 / 130$$

$$I_b = \frac{I_c}{\beta} = \frac{20 \text{ mA}}{120} = 0,16 \text{ mA}$$

$$12 = R_2 \cdot i_b + 0,7 + 0,7$$

$$R_2 \cdot i_b = 12 - 0,7 - 0,7$$

$$R_2 = \frac{12 - 1,4}{i_b} = \frac{10,6 \text{ V}}{0,16 \text{ mA}} = 66,25 \text{ k}\Omega \sim \underline{68 \text{ k}\Omega}$$

$$P_{R1} = i^2 \cdot R = 35 \cdot 20^2 \text{ mA} = \underline{0,014 \text{ W}}$$