



$V_{CE0} 40\text{V} -$
 $h_{FE} \approx 200$

2N2222A

$$5\text{V} = R_c I_c + 2\text{V} + V_{CE_s}^{0,1\text{V}}$$

$$R_c I_c = 5\text{V} - 2 - 0,1$$

$$R_c = \frac{2,9}{I_c} = \frac{2,9}{0,02} = 145\Omega$$

2,
 150Ω

$$I_c = \beta I_b$$

$$I_b = \frac{I_c}{\beta} = \frac{0,020}{200} = 0,0001 = 0,1\mu\text{A}$$

$$R_b I_b + V_{be} = 5\text{V}$$

$$R_b I_b = 5 - V_{be}$$

$$R_b = \frac{4,3}{0,0001} = 43\text{k}\Omega$$

↓
 33k
 10k -