- 16 (even number)

So, my BJT is BC5470

$$V_{ee} = 1.0V$$

Re
 $R_{e} = 1.0V$ 
 $V_{ee} = 1.0V$ 
 $V_{ee} = 5V$ 
 $R_{e} = 420$ 
 $R_{e} = 1.00$ 
 $R_{e} = 1.0V$ 
 $R_{e} = 1.0V$ 

$$T_e = 2 m A$$

$$V_{eE} = 5 V$$

$$V_{ee} = 10 V$$

$$R_E = \frac{V_E}{T_0} \approx \frac{V_E}{T_0} = \frac{1}{2mA} = 0.5 \text{ k} \Omega = 500 \Omega$$

$$R_{E} = \frac{V_{E}}{I_{e}} \simeq \frac{V_{E}}{I_{e}} = \frac{1V}{2mA} = 0.5 \text{ k} \Omega = 500 \Omega$$

$$R_{e} = \frac{V_{RE}}{I_{e}} \simeq \frac{V_{RE} - V_{E} - V_{E}}{I_{e}} = \frac{(10 - 5 - 1)V}{2mA} = 2k\Omega$$

$$= 2000\Omega$$

$$V_{B} = V_{BE} + V_{E} = 0.7 + 1 = 1.7 \text{ V}$$
Then,  $R_{2} \leq \frac{1}{10} \beta R_{E}$ 

$$\Rightarrow R_{2} \leq \frac{1}{10} \times 420 \times (0.5)$$

$$\Rightarrow R_{2} \leq 21 \text{ k/U}$$

$$V_{B} = \frac{R_{2}}{R_{1} + R_{2}} \times \text{Vee}$$

$$\Rightarrow 1.7 = \frac{19}{R_{1} + 19} (100)$$

$$\Rightarrow 1.7 = \frac{19}{R_{1} + 19} (100)$$

$$\Rightarrow R_{1} = 92.7641 \text{ k/U}$$

$$R_{2} = 19 \text{ k/U}$$

$$R_{2} = 19 \text{ k/U}$$

$$R_{1} = R_{3} = 2 \text{ k/U}$$

$$R_{2} = R_{4} = 0.5 \text{ k/U}$$

$$R_{1} = R_{4} = 0.5 \text{ k/U}$$

$$R_{2} = R_{4} = 0.5 \text{ k/U}$$

$$R_{3} = R_{4} = 0.5 \text{ k/U}$$

 $= 13 \times 10^3 \text{kg}$ 

input impedence, 
$$Z_{in} = R$$
,  $1|R_2||B_{Re}|$ 

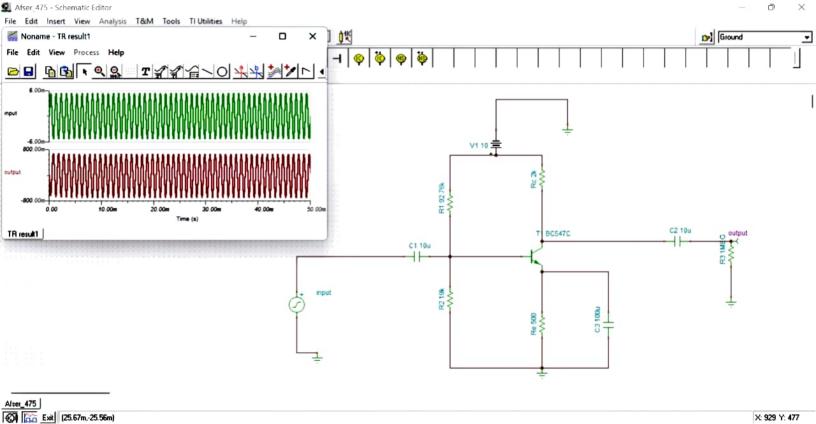
$$= \left(\frac{1}{22.764} + \frac{1}{10} + \frac{1}{420 \times (13 \times 10^{-3})}\right)^{-1}$$

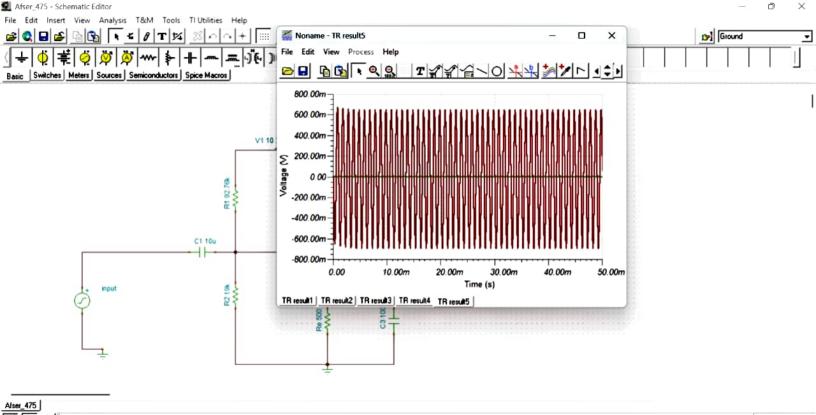
$$= 4.045 \text{K} \text{ V2}$$

output impedence, 
$$Zout = Rel|Ro|$$

$$= (-\frac{1}{2} + \frac{1}{\infty})$$

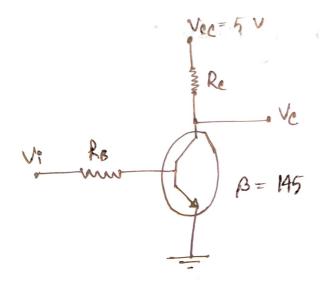
$$= 2 k R$$

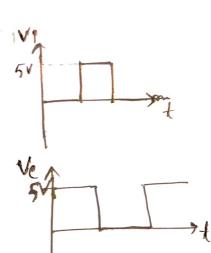


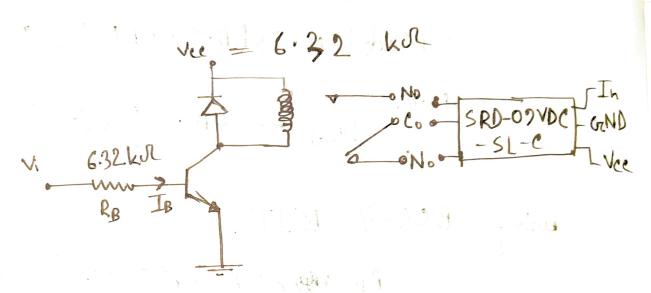


Model No : SRD-07 V De-SL-C

Hore, Tesat = 50 mA [data sheet]







Diagram! Relay Module

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