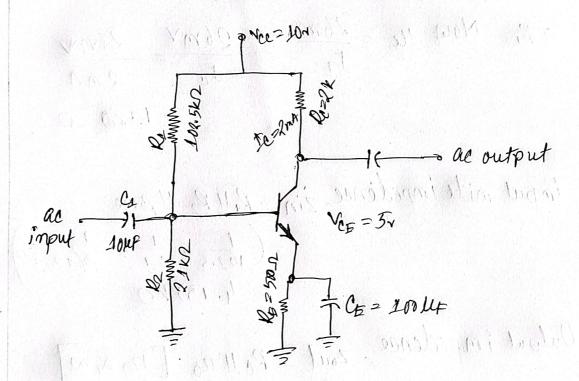
Answer to the question no. 1

The last three digit. of my id; 1+2+9=12 (even) So, my byt model is BC547c

$$IB = \frac{I_0}{0} = \frac{2mA}{420} = 4.76 \times 10^{-3} \text{ mA}$$



$$R_{E} = \frac{V_{E}}{J_{E}} = \frac{V_{E}}{J_{C}} = \frac{1}{2 \times 10^{3}} = 500 \Omega$$

$$V_{B} = V_{BB} + V_{B} = 0.7 + JV$$
 $V_{D} = \frac{1.77}{R_{2}} \times \frac{1}{10} R_{E}$
 $V_{B} = \frac{R_{2}}{R_{1} + R_{2}} \times \frac{1}{10} R_{E}$
 $V_{B} = \frac{R_{2}}{R_{1} + R_{2}} \times \frac{1}{10} R_{E}$
 $V_{B} = \frac{R_{2}}{R_{1} + R_{2}} \times \frac{1}{10} R_{E}$
 $V_{B} = \frac{100 \text{ GeV}}{R_{1} + R_{2}} \times \frac{1}{10} R_{E}$
 $V_{B} = \frac{100 \text{ GeV}}{R_{1} + R_{2}} \times \frac{1}{10} R_{E}$

Now,

$$V_{0} = \frac{R_{2}}{R_{1} + R_{2}}$$
 Voc $P_{0} = \frac{1}{10} R_{2} \le \frac{1}{10} R_{2}$ $R_{2} \le \frac{1}{10} R_{2}$ $R_{2} \le \frac{1}{10} \times 420 \times 500$.
 $P_{1} \cdot P_{2} = \frac{1}{10} \times 400$ $R_{2} \le 21 \times 10$
 $P_{2} \cdot P_{3} = 102 \times 10$

Marie Engle Luction Lane

Now
$$r_e = \frac{26mV}{\Gamma_E} \approx \frac{26mV}{R} = \frac{26mV}{RmA}$$

$$= \frac{26mV}{RmA} = \frac{26mV}{RmA}$$

Output impedence zout = Re U no [no x xo] = (1 + 1) 1 = Re= 2kl

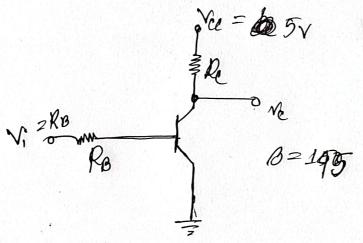
Amuen to the question no. 2

My aid is 129;
So, (1+2+9)=19;
model no, SRD-09VDC-5L-C

here, Icsat = 50 mA

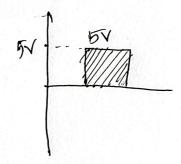
Using BC637BJT

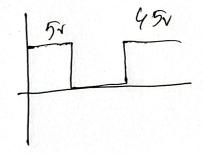
for 50 mA, B=145 (1200 to 165)



IBOY Icsat

- IB 0> 0.34mA





Let, $I_{B} = 0.68g \text{ mA}$. $= R_{B} = \frac{V_{i} - B.7}{I_{B}} = \frac{5 - 0.7}{0.689} = 6.24 \text{ m/s}.$ 1) 18. 30, VOC / CCC ... (1) 553, 18 (00 - 1) ma to (1200 m) V:26.24KD

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