

$$A = \frac{v_0}{v_g} = \frac{a}{1 + af}$$

$$\alpha = \frac{v_0}{v_g} \Big|_{c=0} = \frac{r_{\pi 1}}{r_{\pi 1} + R_G} g_{m 1} \left(\frac{r_{01}}{r_{\pi 1}} \right) g_{m 2} \left(\frac{r_{02}}{r_{\pi 2}} \right) g_{m 2} \left(\frac{r_{02}}{r_{\pi 1}} \right) g_{m 2} \left($$

Supongamos
$$I_{CQ1} = 10 \text{ mA}$$
 $I_{CQ2} = 100 \text{ mA}$ $V_{A} = 100 \text{ V}$ $\beta_{1} = 100$ $\beta_{2} = 50$ $R_{G} = 10 \Omega$ $R_{L} = 8 \Omega$

$$r_{\overline{11}} = \frac{\beta}{gm}$$

$$r_{01} = 260 \Omega$$

$$R_{3} = 100 \Omega$$

$$f_0 = \frac{V_A}{V_T gm}$$

$$F_{\Pi} 2 = 13 \Omega$$

$$f_0 2 = 1K \Omega$$

$$f_0 2 = 100$$

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$$y_{m} = V_{T}$$
 $y_{m} = 0,3846 \frac{A}{V}$
 $V_{T=0,026V}$
 $y_{m} = 0,3846 \frac{A}{V}$

$$\alpha \cong 0,96.0,3846 \frac{A}{V}.11,5 \Omega.3,846 \frac{A}{V}.7,9 \Omega = 129$$

$$A = \frac{v_0}{v_g} = \frac{a}{1+af} = \frac{129}{130} = 0,99$$

$$Z_1 = (1+af) r_{\pi 1} = 130.260 \Omega \stackrel{\sim}{=} 34 K \Omega$$

$$Z_0 = \frac{r_{02}//R_L}{1+af} = \frac{7.9 \Omega}{130} \stackrel{\sim}{=} 0.06 \Omega$$