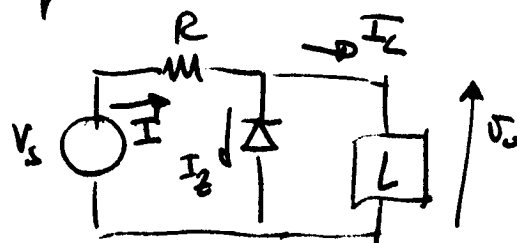


Allo stesso tempo la potenza nello Zener non deve superare un valore massimo



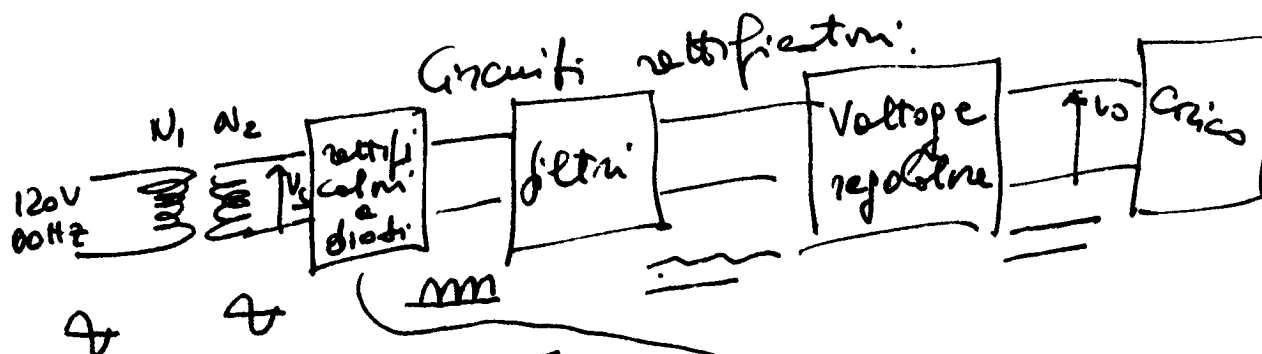
$$P_{Zener} = \left(\frac{V_S - V_o}{R} - I_L \right) \cdot V_Z$$

$I = \frac{V_S - V_o}{R} = \text{corrente totale}$

- parte nello Zener I_Z
- parte nel carico I_L

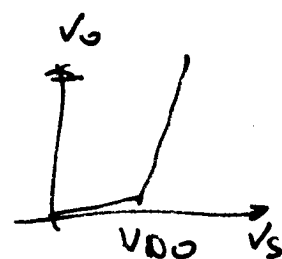
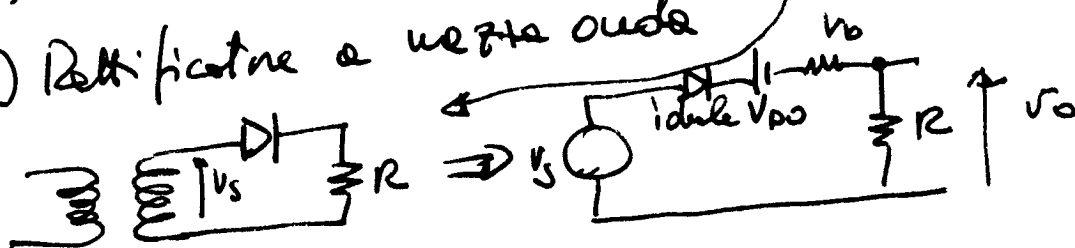
Se $I_L \gg I_Z \Rightarrow$ Calcolo R critico

$$\hookrightarrow P_{Zener} = f(I_L)$$



N_1, N_2 determinano V_S

1) Rettificatore a mezza onda



$$V_o = 0 \text{ per } V_s < V_{D0}$$

$$V_o = \frac{R}{R + r_D} V_s - V_{D0} \frac{R}{R + r_D} \text{ per } V_s \geq V_{D0}$$

se $r_D \ll R \quad V_o = V_s - V_{D0}$

