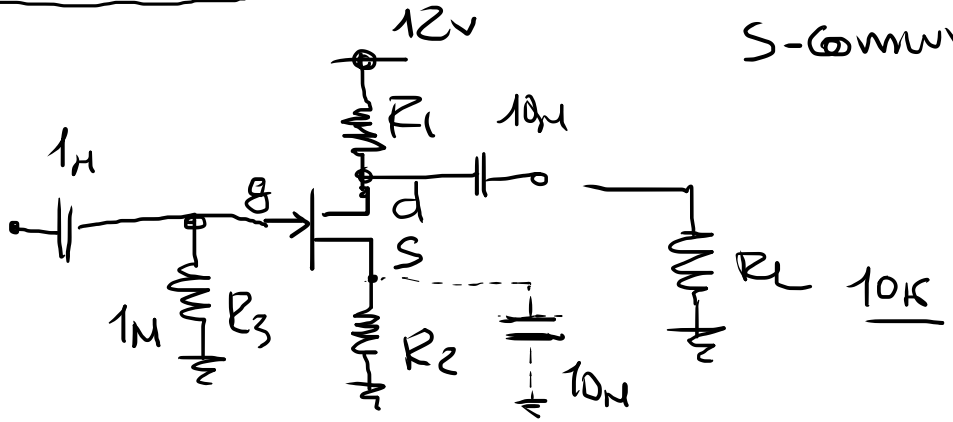
jfet a spame



S-comune

J112

rdson 50Ω,

$I_{DSS} \simeq 30\,mA$

- rdson = 0Ω
- $I_D \simeq 75\%\ I_{DMAX} = 0{,}75 \cdot 30\,mA \simeq \underline{20\,mA}$

$V_+ = I_D \cdot R1 + V_{DS} + I_D \cdot R2$ → $12V = I_D (R1 + R2)$

$V_{DS} \simeq I_D \cdot rdson$

$\underline{R1+R2} = \frac{12}{0{,}020} = 600\Omega$

- $R2 \cdot 25\% V_+ \rightsquigarrow V < 12 \cdot 0{,}25 = 3V$ $\quad R2 \geq \frac{3V}{20mA} = \underline{150\Omega}$

$R1 \leq 600 - R2 = \underline{450\Omega}$

$A \simeq \frac{R1}{R2} = \frac{450\Omega}{150\Omega} \simeq 3$