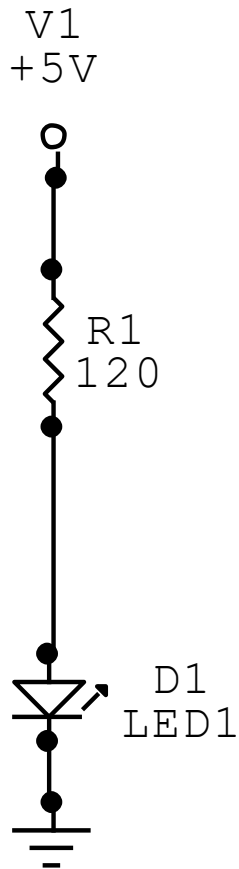


Transistores funcionando como chave!

F540 c

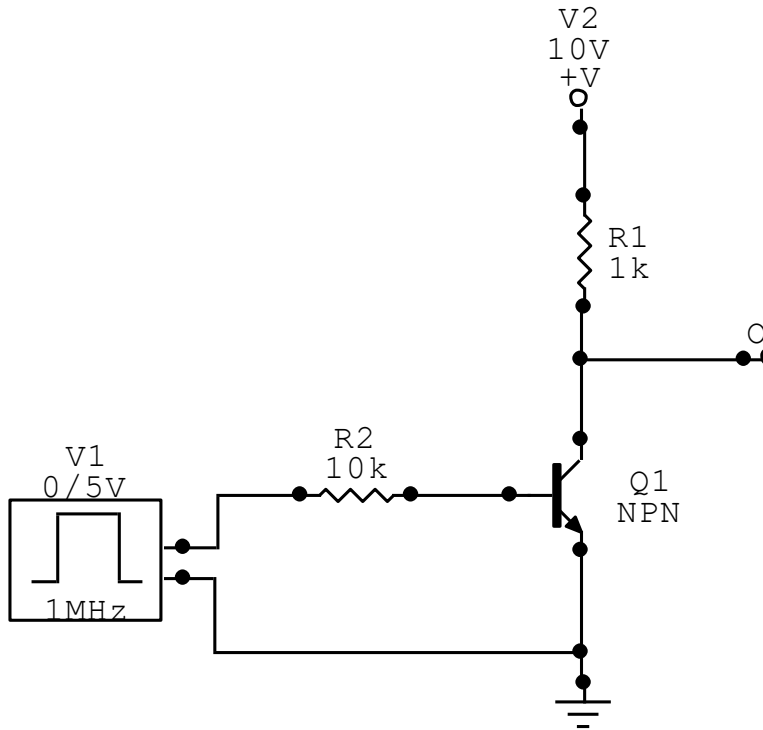
David

Resistencia limitadora de corrente

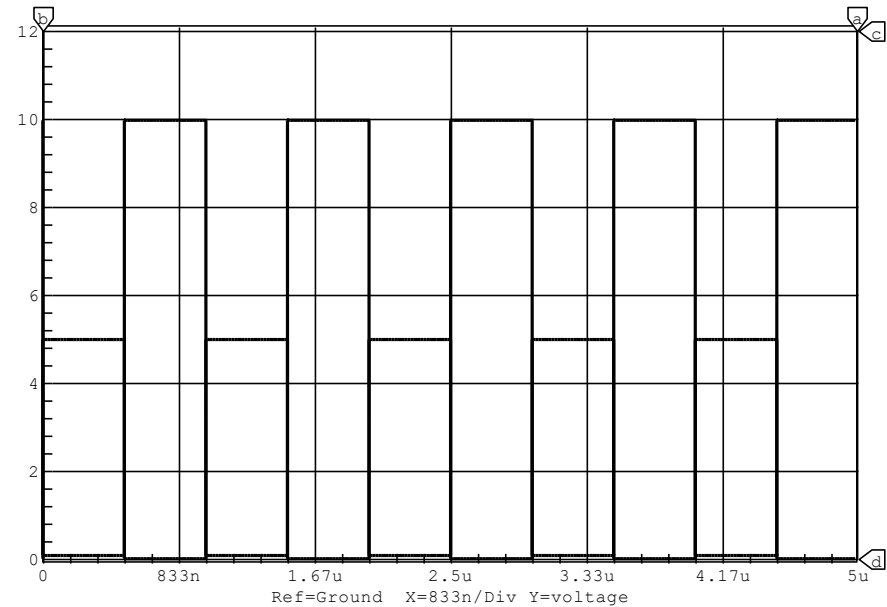


A resistencia impede que a corrente no diodo exceda o valor limite.

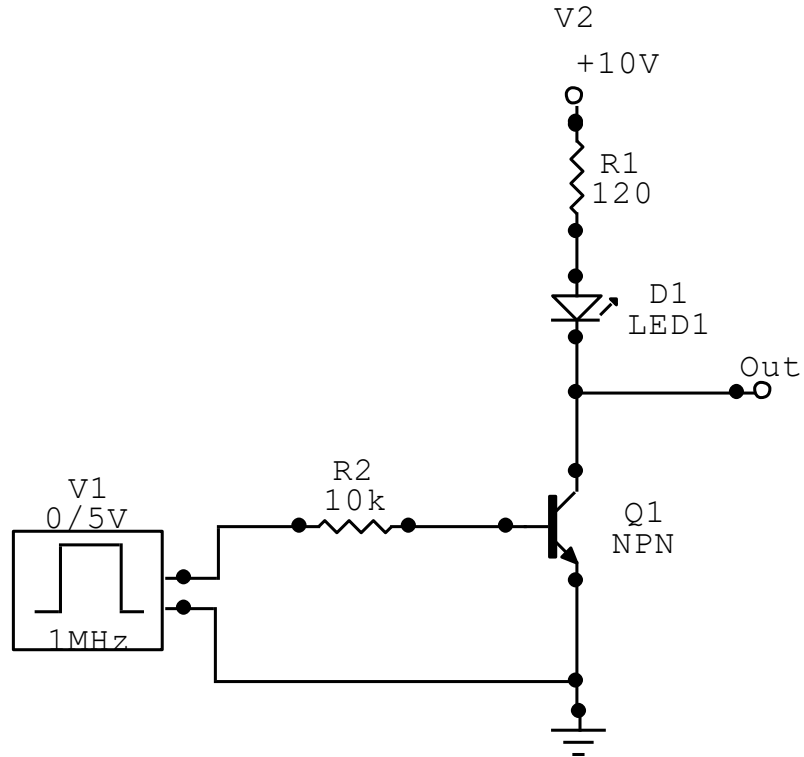
Transistor bipolar

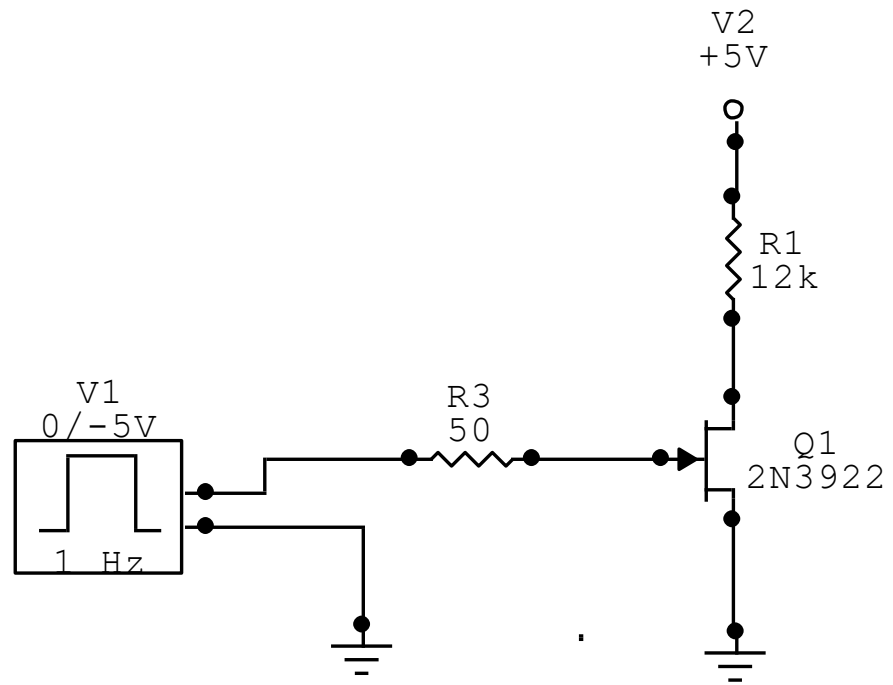


Xa: 5.000u Xb: 0.000 a-b: 5.000u freq: 200.0k
Yc: 12.00 Yd: 0.000 c-d: 12.00

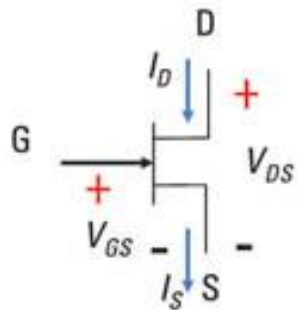


LED piscando a 1MHz

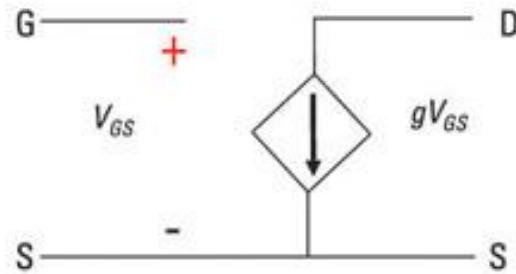




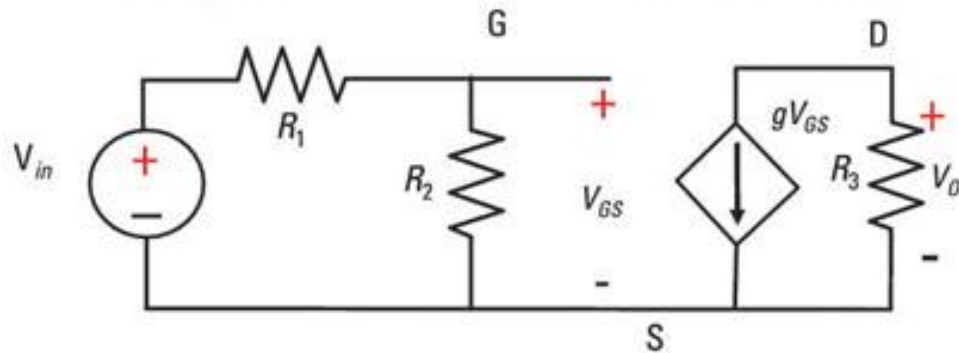
JFET - modelo



JFET Symbol

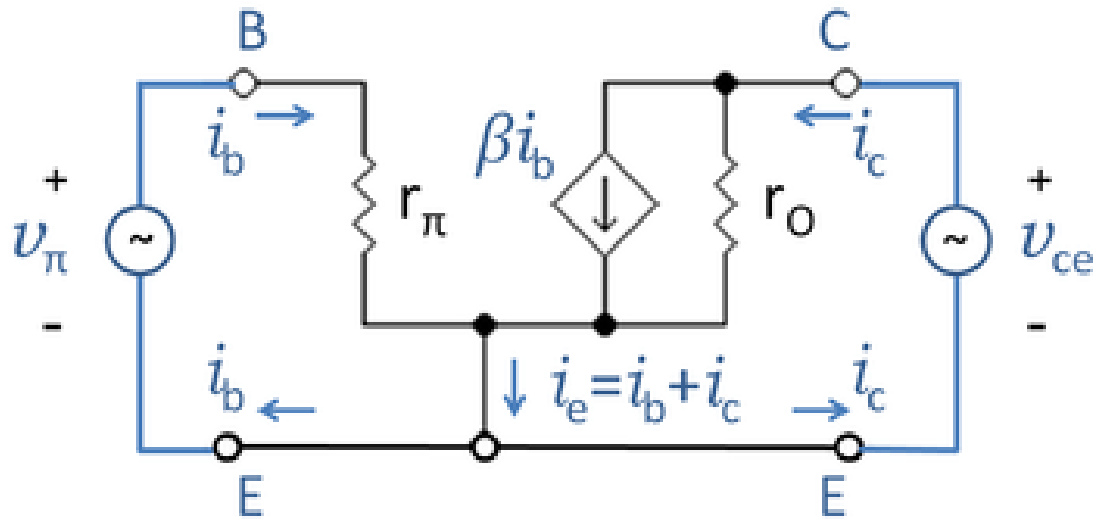


JFET Model (VCCS)

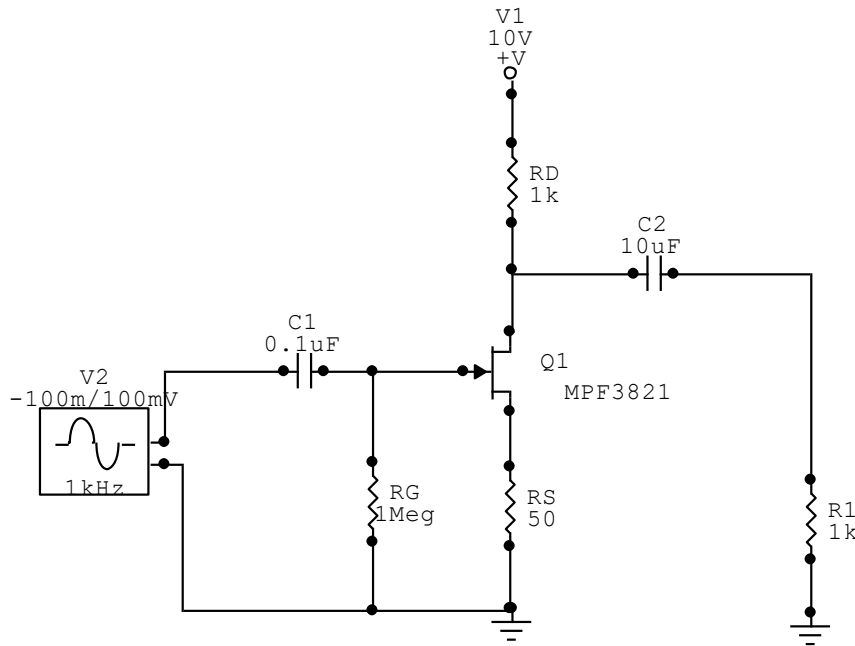


JFET Model in a Circuit

Transistor bipolar- modelo



Retas de carga



$$V_{GS} + R_S I_{DS} = 0$$

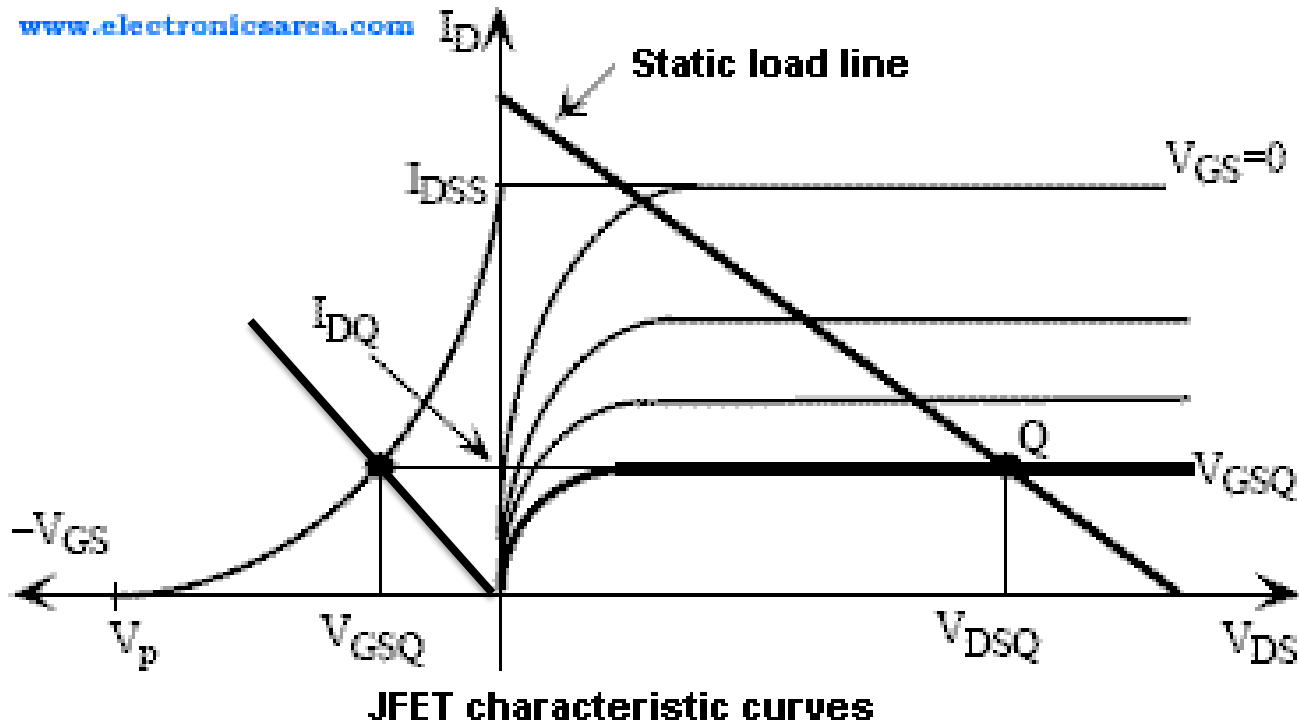
$$V_{GS} = -R_S I_{DS}$$

$$I_{DS} = -\frac{1}{R_S} V_{GS}$$

$$V_1 = (R_D + R_S) \times I_{DS} + V_{DS}$$

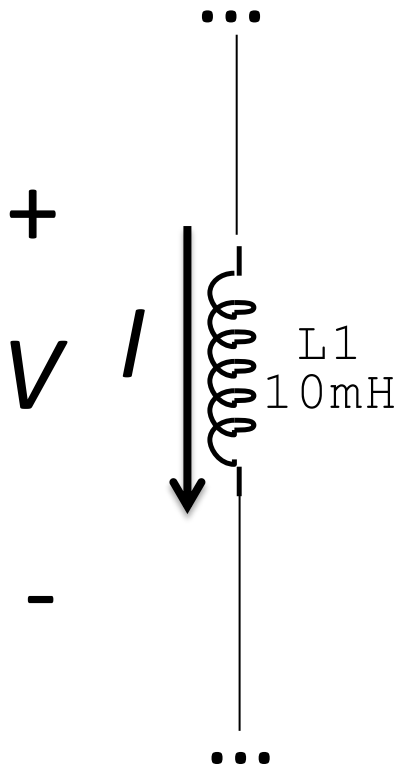
$$I_{DS} = -\frac{1}{R_D + R_S} V_{DS} + \frac{V_1}{R_D + R_S}$$

Retas de carga na entrada e saída do FET



Aplicações

https://www.youtube.com/watch?v=vwJYlorz_Aw&t=30s



$$I = \frac{1}{L} \int_0^T V dt$$

