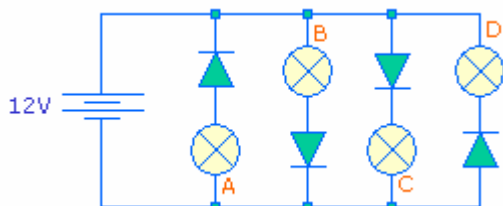


Lista de exercícios – Diodos – conceitos básicos

1- Qual lâmpada acenderá?

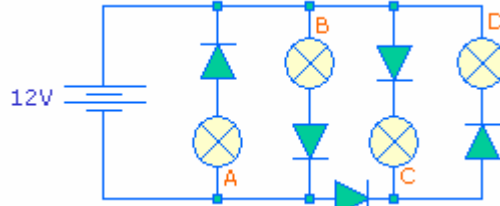
a)

- A
B
C
D



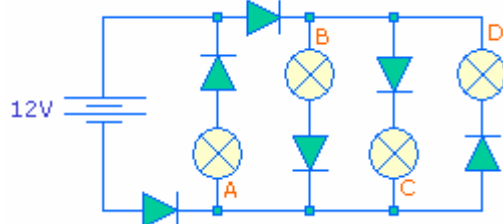
b)

- A
B
C
D



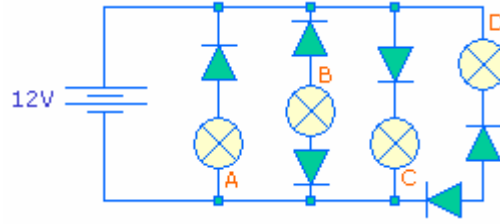
c)

- A
B
C
D



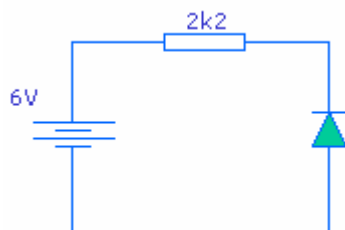
d)

- A
B
C
D

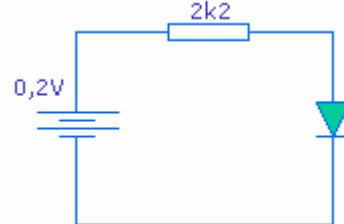


2- Qual a corrente que circula pelos diodos? Justifique.

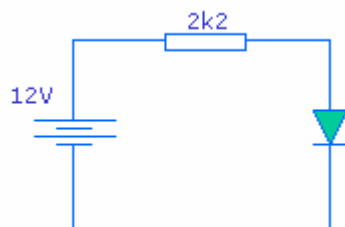
a)



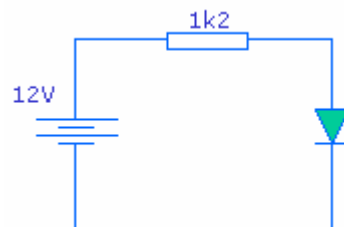
b)



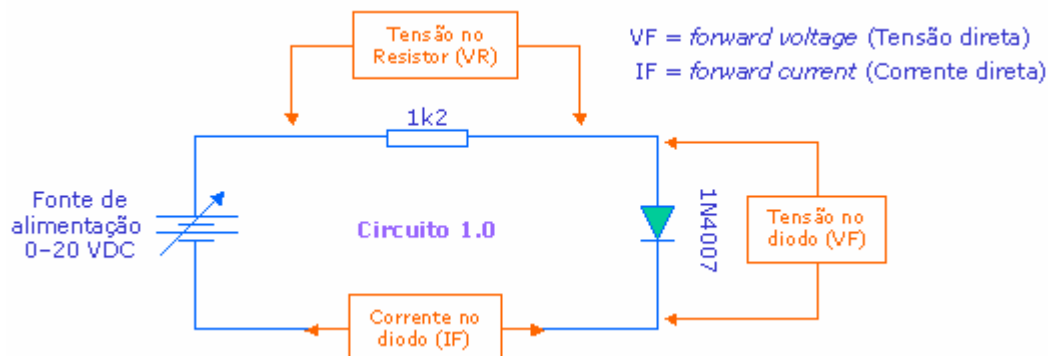
c)



d)

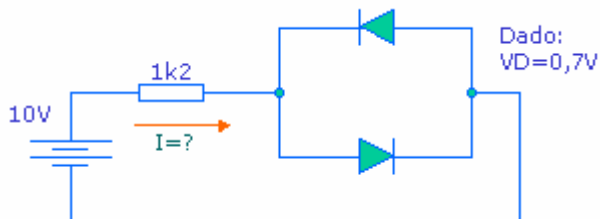


3- Utilizando o circuito abaixo, complete a tabela.

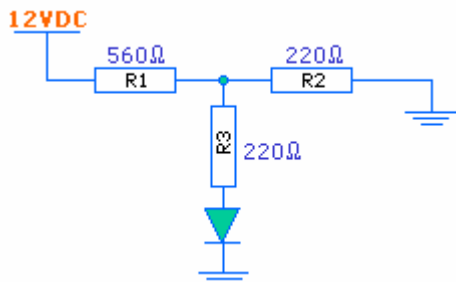


Fonte	VR	VF	IF	PR
5V				
10V				
15V				
20V				

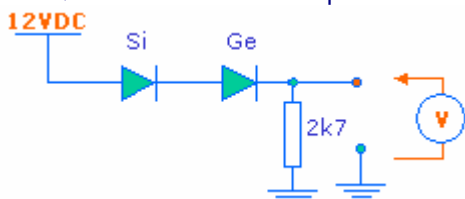
- 4- Determine a corrente I representada no circuito abaixo. *Resposta: $I=7,75\text{mA}$.*



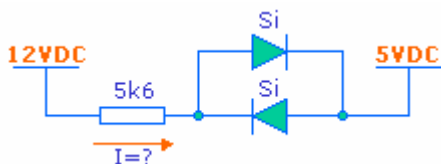
- 5- Qual as tensões e correntes nos componentes. (Diodo de silício) *Resposta: $V_{R2}=8,62\text{V}$, $V_{R2}=3,38\text{V}$, $V_{R3}=2,68\text{V}$*



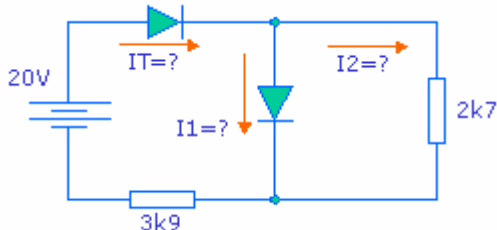
- 6- Qual a tensão indicada pelo voltímetro? *Resposta: $I=11\text{V}$*



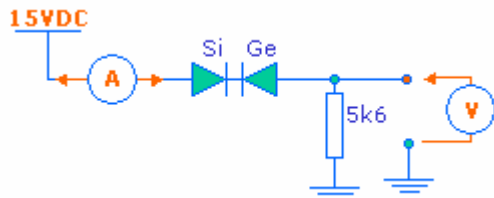
- 7- Determine a corrente I indicada no circuito. *Resposta: $I=1,13\text{mA}$.*



- 8- Quais as correntes I_T , I_1 e I_2 no circuito abaixo. (Diodo de silício) *Resp: $I_T=4,77\text{mA}$, $I_1=4,51\text{mA}$ e $I_2=254,26\mu\text{A}$*



- 9- Qual a tensão e corrente medida pelos instrumentos? *Resposta: $I=0$ e $V=0$.*



- 10- Calcule as correntes I_T , I_2 e I_3 e a tensão indicada no voltímetro. (Diodo de silício).

Resp: $I_T=28,97\text{mA}$, $I_1=I_2=1,45\text{mA}$ e $V=0,7\text{V}$.

