

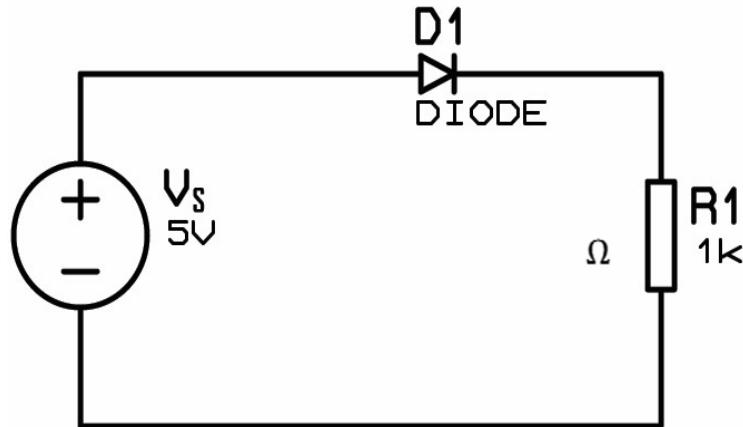


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Diode Circuit

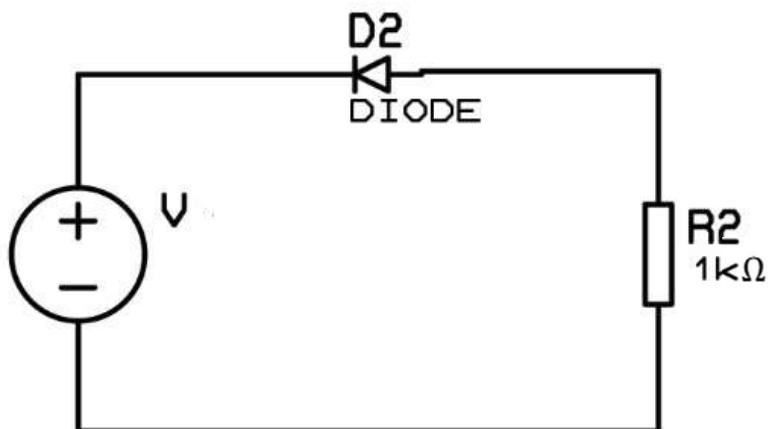
Diode Approximation:

1. Let's assume the diode resistance is negligible.



- a. Assume the diode is silicon and find the current across the circuit.
- b. If the $V_s = 0.5$ v find the current across the circuit when,
 - the diode is Germanium
 - the diode is Silicon

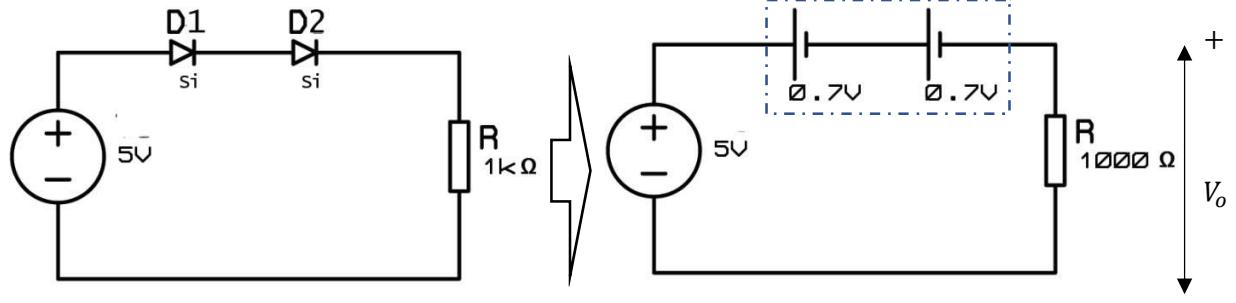
2. Find the current across the circuit



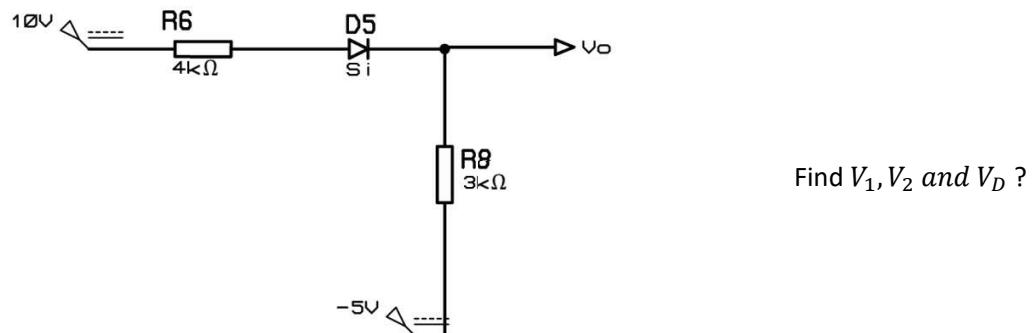


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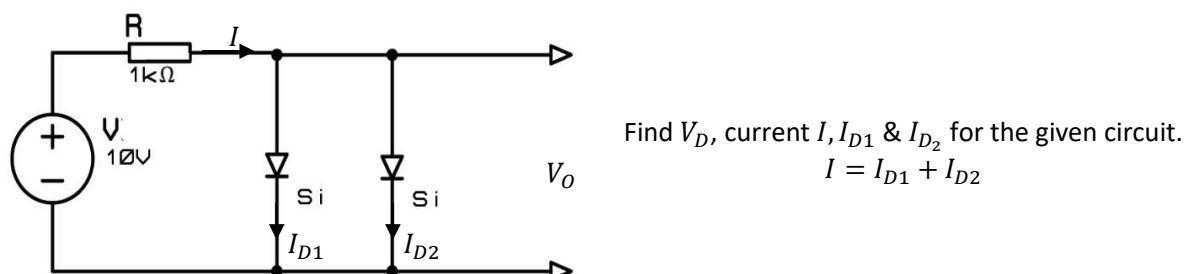
3. Find the voltage and current across each diode.



4.



5.

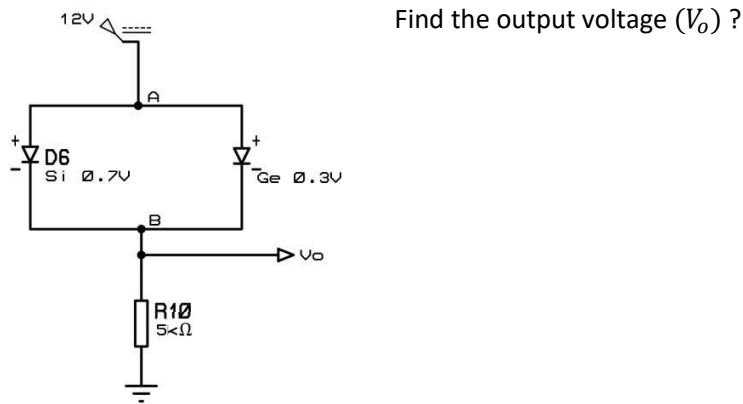


Assume diodes are identical



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6.



7.

Find output voltage V_o .

