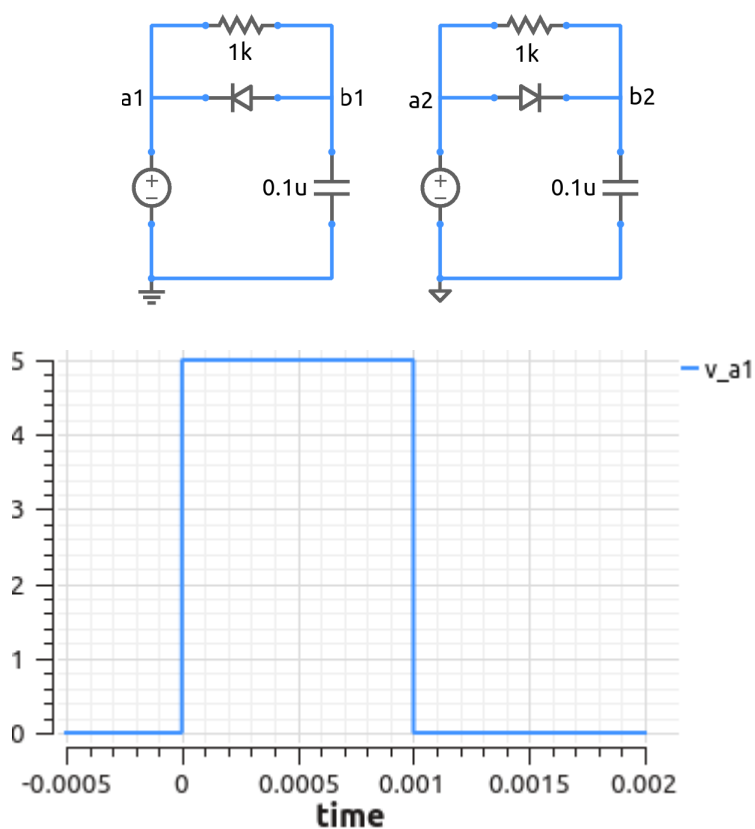


ee101_diode_circuit_7.sqproj



In each of the diode circuits shown in the figure, the charging and discharging paths for the capacitor are different because a diode allows current only in one direction. As a result, the charging and discharging waveforms are qualitatively different. We are interested in the circuit response to an input voltage pulse shown in the figure in each circuit. Assume $V_{on} = 0.7\text{ V}$ for the diodes.

Exercise Set

1. Sketch the output voltage as a function of time in each case.
2. Verify with simulation.