

Prelab – Experiment 7

Diode Characteristics and Circuits

1 Question 1

Estimate the ripple as described in Step 3 of the Experiment 7 instructions for $R_L = 50 \text{ k}\Omega$. Take other values from Step 2. You can use the small x approximation for e^x (since $t \ll \tau$). See Eq. (6.7) in Sprott.

2 Question 2

Match circuit schematics (a)-(d) with graphs #1-4 of the waveforms for V_{in} and V_{out}

