

Chapter 3 PROBLEMS

For all problems, use the device parameters provided in Chapter 3 (Tables 3.2 and 3.5) and the inside back book cover, unless otherwise mentioned. Also assume $T = 300$ K by default.

1. [E, SPICE, 3.2.2]
 - a. Consider the circuit of Figure 0.1. Using the simple model, with $V_{\text{on}} = 0.7$ V, solve for I_D .
 - b. Find I_D and V_D using the ideal diode equation. Use $I_s = 10^{-14}$ A and $T = 300$ K.
 - c. Solve for V_{on} , V_{off} , and I_D using SPICE.
 - d. Repeat parts b and c using $I_s = 10^{-16}$ A, $T = 300$ K, and $I_s = 10^{-14}$ A, $T = 350$ K.

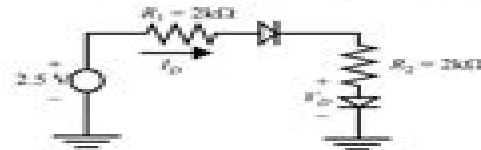


Figure 0.1 Resistor diode circuit.

2. [M, None, 3.2.3] For the circuit in Figure 0.2, $V_s = 3.3$ V. Assume $A_{\text{D}} = 12 \mu\text{m}^2$, $\phi_0 = 0.65$ V, and $m = 0.5$. $N_A = 2.5 \text{ E}16$ and $N_D = 5 \text{ E}15$.
 - a. Find I_D and V_D .
 - b. Is the diode forward- or reverse-biased?
 - c. Find the depletion region width, W_p , of the diode.
 - d. Use the parallel-plate model to find the junction capacitance, C_j .
 - e. Set $V_s = 1.5$ V. Again using the parallel-plate model, explain qualitatively why C_j increases.



Figure 0.2 Series diode circuit.

3. [E, None, 3.3.2] Figure 0.3 shows NMOS and PMOS devices with drains, source, and gate ports annotated. Determine the mode of operation (saturation, linear, or cutoff) and drain current I_D for each of the biasing configurations given below. Verify with SPICE. Use the following transistor data: NMOS: $k_n' = 115 \mu\text{A/V}^2$, $V_{\text{th}} = 0.43$ V, $\lambda = 0.06 \text{ V}^{-1}$, PMOS: $k_p' = 30 \mu\text{A/V}^2$, $V_{\text{th}} = -0.4$ V, $\lambda = -0.1 \text{ V}^{-1}$. Assume $(W/L) = 1$.
 - a. NMOS: $V_{\text{GS}} = 2.5$ V, $V_{\text{DS}} = 2.5$ V. PMOS: $V_{\text{GS}} = -0.5$ V, $V_{\text{DS}} = -1.25$ V.
 - b. NMOS: $V_{\text{GS}} = 3.3$ V, $V_{\text{DS}} = 2.2$ V. PMOS: $V_{\text{GS}} = -2.5$ V, $V_{\text{DS}} = -1.8$ V.
 - c. NMOS: $V_{\text{GS}} = 0.6$ V, $V_{\text{DS}} = 0.1$ V. PMOS: $V_{\text{GS}} = -2.5$ V, $V_{\text{DS}} = -0.7$ V.
4. [E, SPICE, 3.3.2] Using SPICE plot the I - V characteristics for the following devices.

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