Section 2-7: \(i-V\) Relationships

Problem 2.51  Determine \(I_1\) and \(I_2\) in the circuit of Fig. P2.51. Assume \(V_F = 0.7\) V for both diodes.

![Figure P2.51: Circuit for Problem 2.51.](image)

**Solution:** The diode in the left-hand loop is reverse biased, so

\[ I_1 = 0. \]

In the right-hand loop, the diode is forward biased. Hence,

\[ I_2 = \frac{6 - 0.7}{53} = 0.1 \text{ A}. \]