

Special Problem 3.7 - 3

A voltage of $v_D=0.68$ is placed across a standard pn junction diode with $n=1$.

The drift current flowing across the pn junction is 10^{-6} mA.

1. Determine the amount of **diffusion** current flowing across the pn junction.
2. Determine the value of the **drift** current if the diode voltage is increased to 0.73 V.
3. Determine the diode current i_D if $v_D = -10.0$ V.