

Special Problem 3.3-5

A junction diode has been **replaced** in the circuit below with a **PWL model**.

The PWL model has $r_d = 10 \Omega$, and the PWL model provides a value $V_D = 0.64 \text{ V}$ if (and only if) $I_D = 10 \text{ mA}$.

Determine the approximate junction diode values V_D and I_D in the circuit below.

Hint: $V_D \neq 0.64$, and $V_D \neq V_{D0}$, and $I_D \neq 10.0 \text{ mA}$

