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Lab Task 1

Simulation File Submission

<u>After you are done submitting the following lab questions</u>, submit the simulation-file of your circuit with the "**.pdsprj**" extension (this will be in the folder where you saved your project) <u>here</u>.

The filename must be like this:
Lab_1_StudentID_FullNameWithoutSpace.pdsprj. For example, if you are a student whose StudentID is "18101485" and name is "Sowmitra Das", your filename will be: Lab_1_18101485_SowmitraDas.pdsprj.

IV - Characteristics

4/4 points (graded)
Plot the IV-Characteristics of the diode model S5AC in PROTEUS.
Perform a DC Sweep Analysis and plot the graph from 0 Volt to 0.8 Volt. Use 10, 000 steps between the Start Value and Stop Value. From the graph, answer the following questions -

1. If the forward voltage across the diode is 0.65 Volt, what is the current through the diode ? [Answer in mA. Input at least 3 digits after the decimal point.]

5.99   mA   ✔

2. If the forward voltage across the diode is 0.72 Volt, what is the current through the diode ?
[Answer in mA. Input at least 3 digits after the decimal point.]

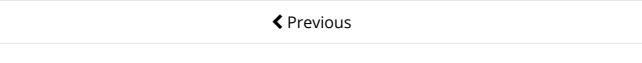29.60   mA   ✔

3. If the current through the diode is 6.8 mA, what is the forward voltage across the diode ?
[Answer in Volt. Input at least 3 digits after the decimal point.]

.656   Volt   ✔

4. If the current through the diode is 15.1 mA, what is the forward voltage across the diode ?
[Answer in Volt. Input at least 3 digits after the decimal point.]

.691   Volt   ✔

| Submit | You have used 6 of 7 attempts |

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