

Experiment 1: Study and Observation of Diode Characteristic Curve

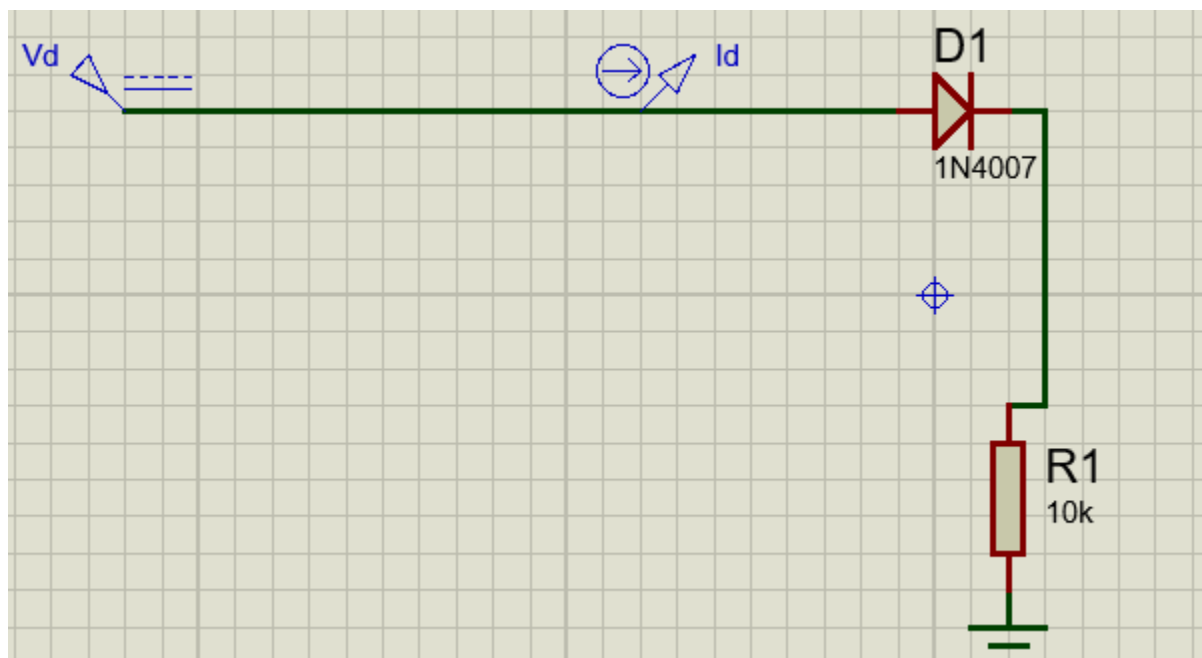
Diode Characteristic Curve:

A diode is a semiconductor device that allows current to flow in only one direction. The diode characteristic curve shows the relationship between voltage (V) and current (I) for a diode. It typically exhibits an exponential behavior.

Equipment and Software Requirements:

- Proteus simulation software
- Computer with Proteus installed

Circuit Diagram:



Data Collection and Analysis:

- Plot a graph of voltage (V) vs. current (I) using the recorded data.
- Observe the diode characteristic curve. Explain the behavior of the diode at different voltage levels.

Questions and Exercises:

- Explain the behavior of the diode in the characteristic curve.
- What would happen if you used a different type of diode in the characteristic curve experiment?

Click [here](#) to watch Installation guide