Elektroniske enheter og kretser
Lab 01

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0. Introduction

This is the first report in this course, detailing the completion of the first lab exercise.

Note: As always, the LaTeX file and all other assets, such as text, images, graphs and code made by me for this project is open source with the MIT licence, see my GitHub 

0.0. Table of Contents

0.1. List of Figures

0.2. List of Tables

1. Part 1 - Diode test

This Part is about testing a diode charachteristics with a multimeter. This means it is inherently not perfect, but it will function as a reference measurment.

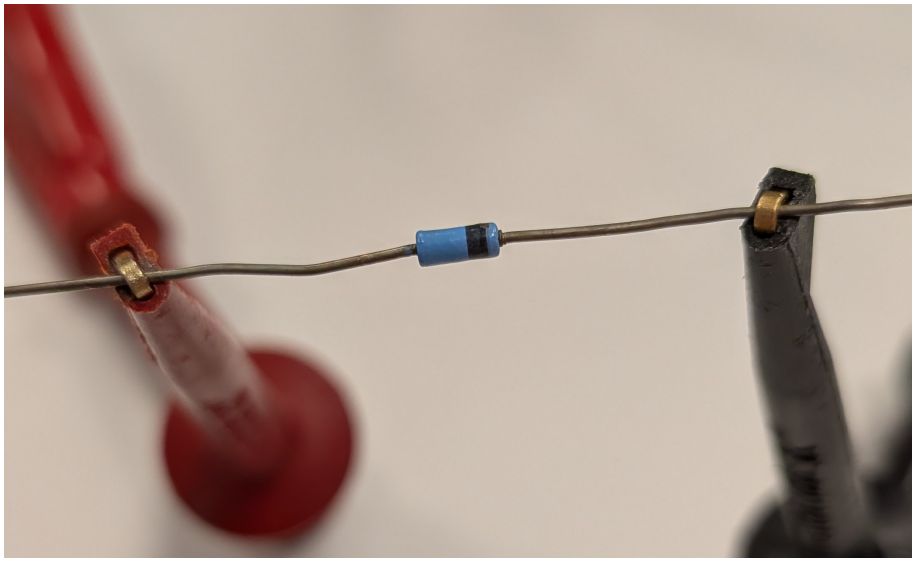

Figure 1.0: Diode being measured

Table 1.0: Diode measurments

Voltage forward	0.593 V	Resistance forward	225400 Ω
Voltage reverse	OL	Resistance reverse	OL

2. Part 2 - Forward-bias charachteristics

This Part is about testing the diode charachteristics for forward-bias. The values was stored in a table (RAW data like this is found on the GitHub) and then a plot was made to compare the current through the diode I_D with the voltage drop over the diode V_D.

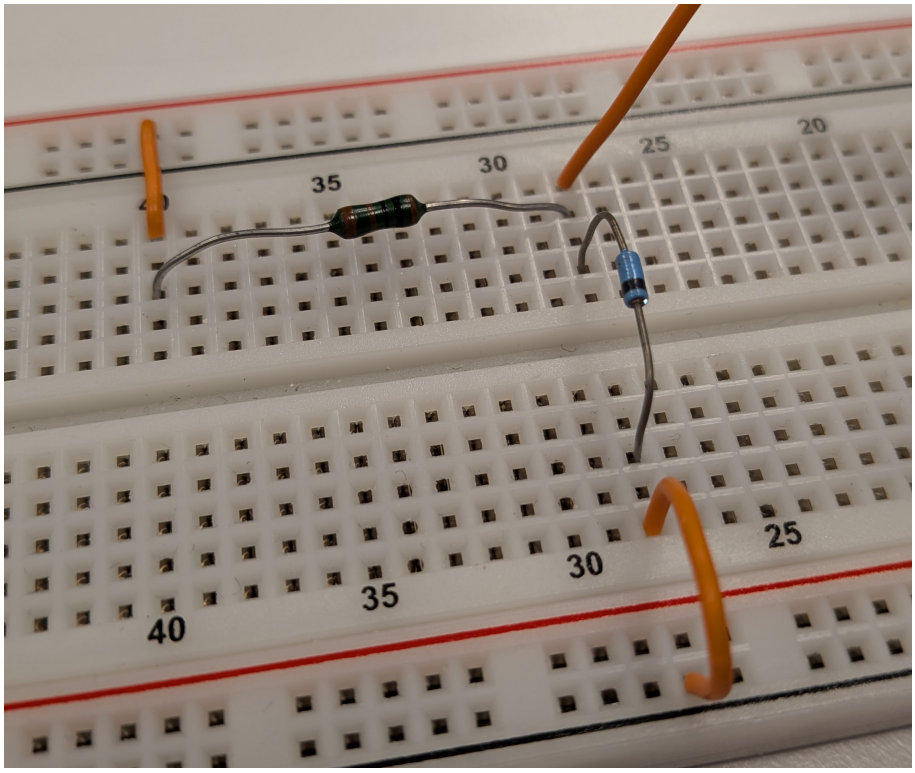

Figure 2.0: Part 2 circuit

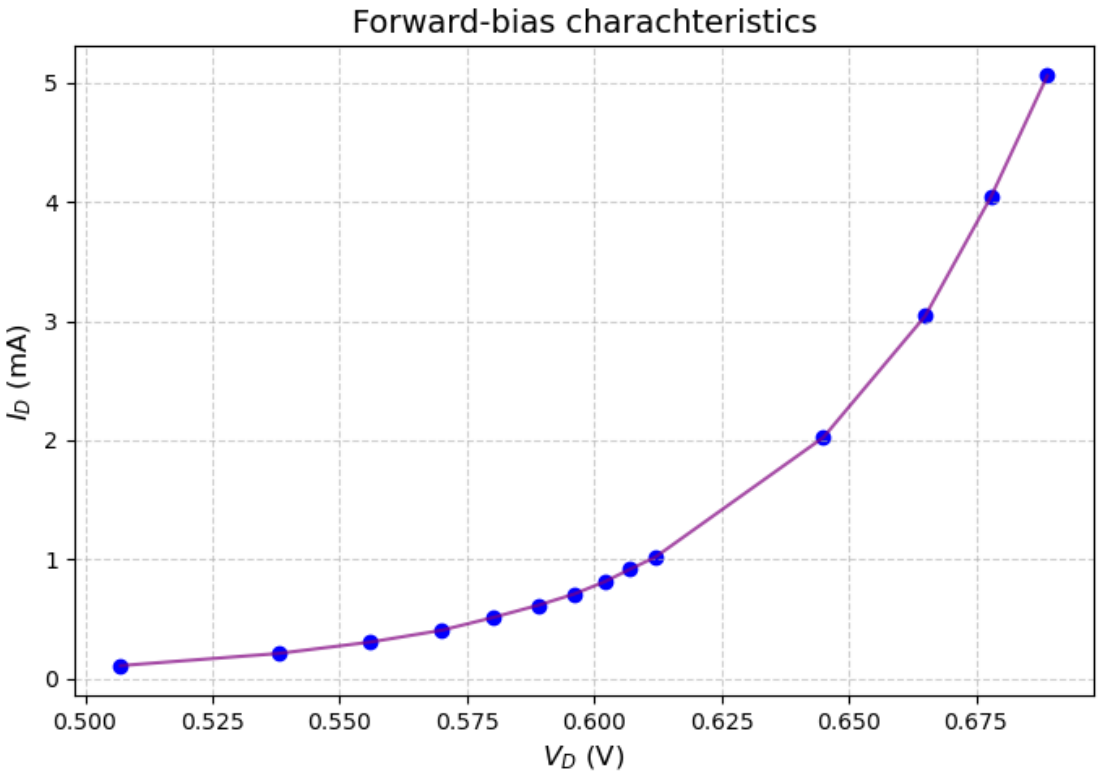

Figure 2.1: Plot of forward-bias charachteristics