

IM2601 Solid State Physics
Lab exercise 3: Photovoltaic effect: Diode
IV-characteristics

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Distance [cm]	P_{max} [W]
12.5	0.07983
17.5	0.05617
22.5	0.04975
27.5	0.04169
32.5	0.03914
37.5	0.03278
42.5	0.02902
47.5	0.02727
52.5	0.02393
57.5	0.02159
62.5	0.02100

Table 1: Maximum power for different distances

1 Introduction

This report concerns itself with the solar cell, which is a very large p - n junction. A p - n junction is a semiconductor, comprised of two parts that are denoted by p and n respectively. The p -side is doped with acceptor atoms and the other with with donor atoms $i++i$.