

Assignment 10 Experiment 10

Characteristic of PN junction diode under reverse bias

Aim: To plot the characteristics curve of PN junction diode in reverse bias

Apparatus: A diode, DC voltage supplier, Bread board, 100Ω resistor, 2 multimeter for measuring current and voltage and connecting wires.

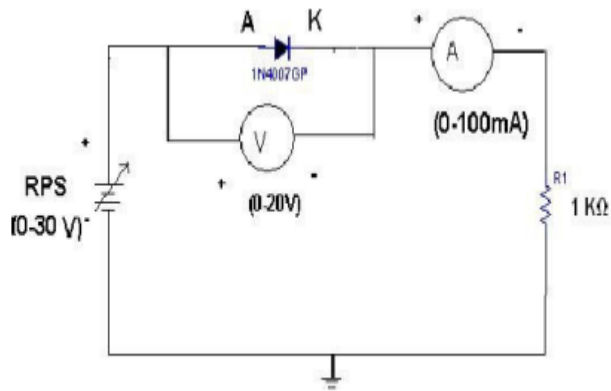


Fig. 10.1. PN Junction Reverse Bias

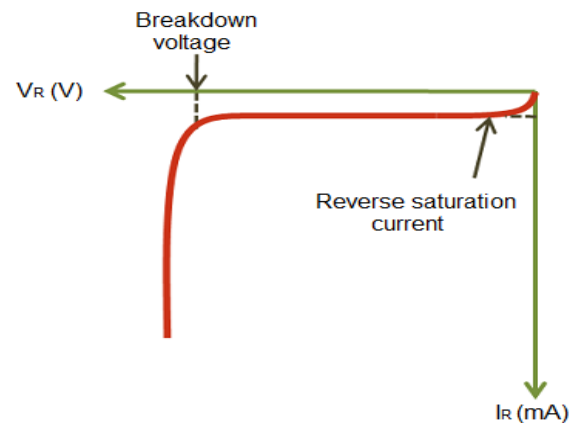


Fig. 10.2. I-V Characteristics

Observation:

S. No	Reverse Voltage V_R (Volt)	Reverse Current I_R (μA)
1	0	0
2	3	0
3	5	0
4	7	0
5	9	1.5
6	11	3.5
7	13	5
8	15	7
9	17	9
10	19	11
11	21	13

Assignment Question:

1. By using the readings in the tabular column (V and I), to draw Reverse Biased I-V characteristic curve.
2. Write the result in the following order

The reverse biased I-V characteristic of PN Junction diode is studied and curve is drawn.

Finally, submit the scanned copy of your observation note book in GCR on (or) before THREE working days from the date of experiment.