

**Date:** 11/3/21

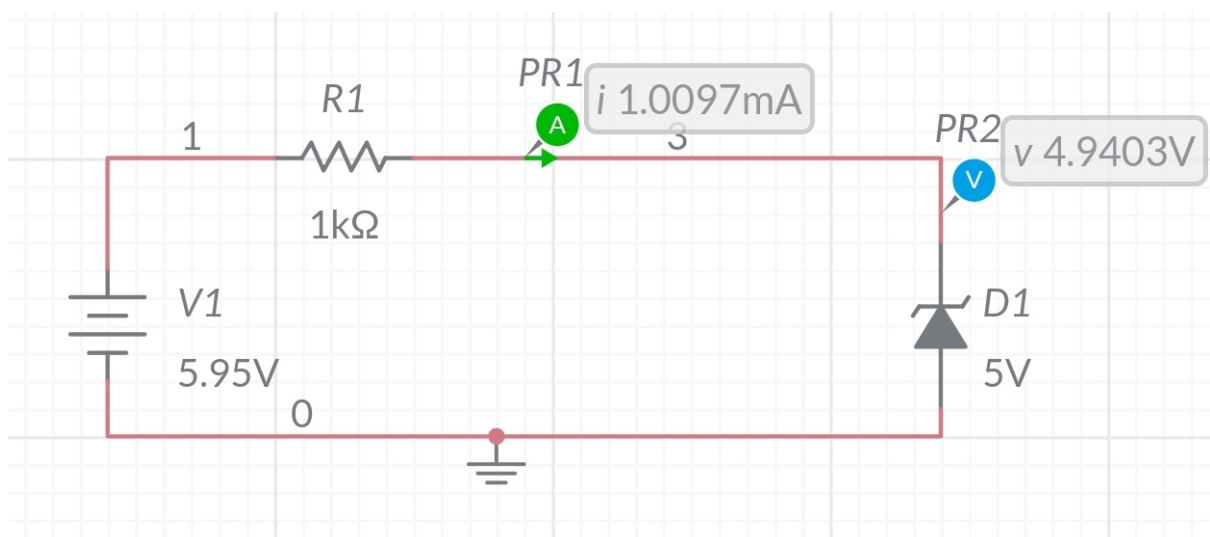
## **Experiment no. 2**

**Objective:** To study characteristics of V-I in Zener diode

**Software used:** Multisim Live

**Theory:** A Zener Diode is constructed in reverse biased. After reaching a certain voltage, called breakdown voltage, the current increases widely even for a small change in voltage.

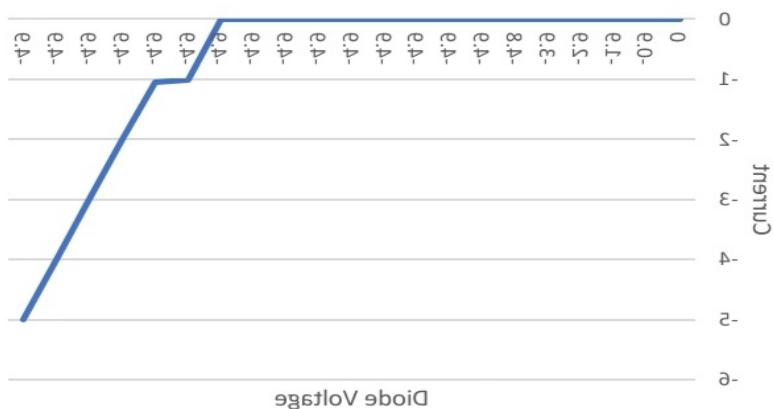
**Circuit:**



**Results & observations:**

**Observations Table**

Applied Voltage (V)	Diode Voltage (V)	Current (mA)
0	0	0
1	-0.9	0
2	-1.9	0
3	-2.9	0
4	-3.9	0
5	-4.8	-0.001
5.1	-4.9	-0.002
5.2	-4.9	-0.002
5.3	-4.9	-0.003
5.4	-4.9	-0.004
5.5	-4.9	-0.005
5.6	-4.9	-0.006
5.7	-4.9	-0.007
5.8	-4.9	-0.008
5.9	-4.9	-0.009
5.95	-4.9	-1.009
6	-4.9	-1.05
7	-4.9	-2
8	-4.9	-3
9	-4.9	-4
10	-4.9	-5



**Result:** Breakdown Voltage of Zener Diode is at around 5.9V