

### Equipments:

The following equipment is needed: Zener diode, DC Power Supply, Resistors, and a multimeter.

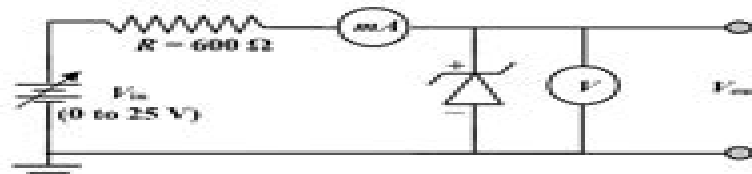
### Procedure:

Setup:

Follow the procedures described in the following and record the measurements and the calculations in the given tables.

#### A. Zener diode characteristics .

1- Connect the circuit shown in figure 1.



2- Adjust the voltage across the zener diode until it reads 6 volts.

3- Measure the current flowing in the diode,  $I_{Zdiode}$ , the voltage across the Zener diode  $V_{Zdiode}$ , and the power supply voltage value  $V_{supply}$ . Record these data in Table (4.1).

4- Repeat the above while increasing  $V_{diode}$  in steps of 0.05 V.

(Hint: do not allow the current through the diode to increase above 30 mA)

Table (4.1)

| $V_{supply} (V)$ | $V_{Zdiode} (V)$ | $I_{Zdiode} (mA)$ | $V_{supply} (V)$ | $V_{Zdiode} (V)$ | $I_{Zdiode} (mA)$ |
|------------------|------------------|-------------------|------------------|------------------|-------------------|
|                  | 2.00             |                   |                  | 6.55             |                   |
|                  | 4.00             |                   |                  | 6.60             |                   |
|                  | 6.00             |                   |                  | 6.65             |                   |
|                  | 6.05             |                   |                  | 6.70             |                   |
|                  | 6.10             |                   |                  | 6.75             |                   |
|                  | 6.15             |                   |                  | 6.80             |                   |
|                  | 6.20             |                   |                  | 6.85             |                   |
|                  | 6.25             |                   |                  | 7.90             |                   |

## 2 The Diode Characteristics Answers

**R Barnett**



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