

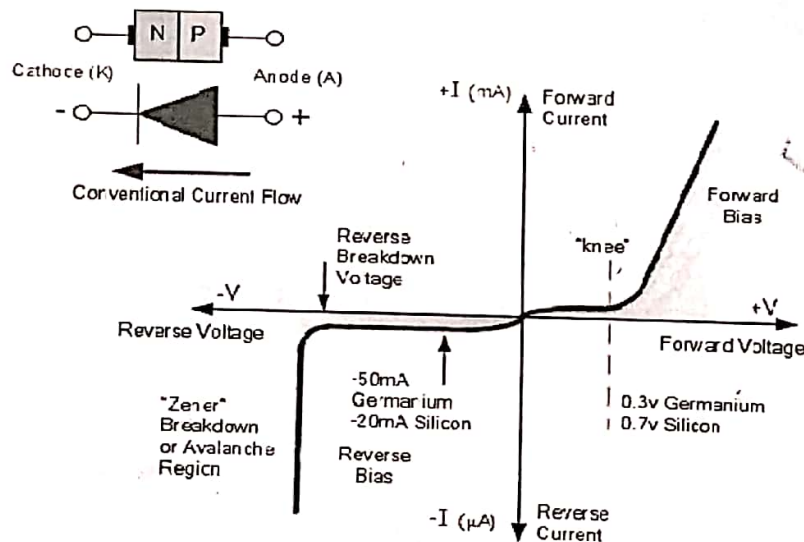
## AIM OF THE EXPERIMENT

V-I characteristics of semiconductor diode(Silicon Diode )

### REQUIREMENTS

	Quantity
1. Bread board	1
2. Transistor power supply(TPS)	1
3. Digital-multi meter	2
4. Silicon diode	1
6. Resistor( 1K)	1

### Characteristic curve:



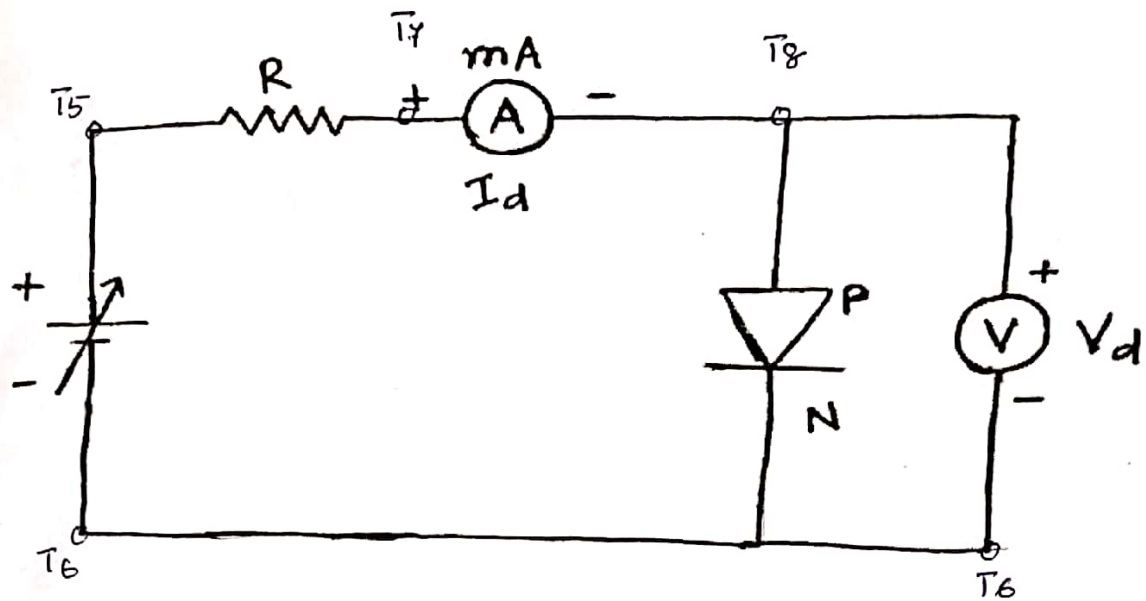
### PROCEDURE

Connect the instruments and components as per the circuit diagram given below , by following the proper rules of bread board.

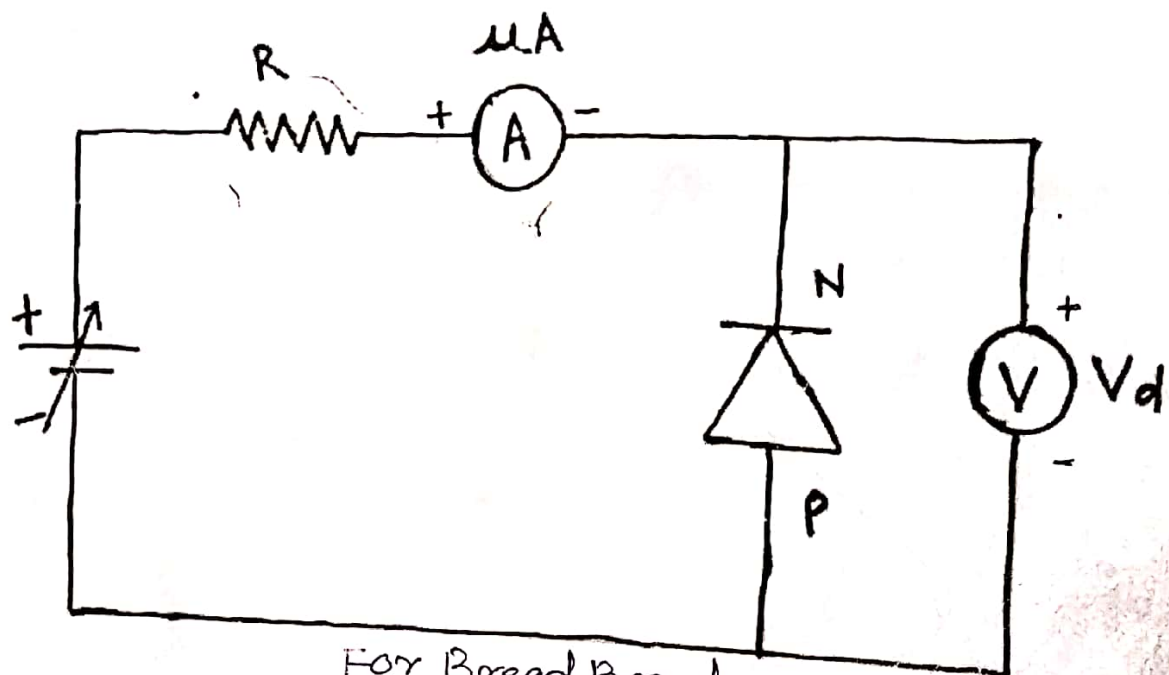
Apply dc voltage at the interval of 0.1v and 1v from TPS for forward and reverse bias respectively as input and measure output voltage ( $V_d$ ) and current( $I_d$ ) in the multimeters.

# CIRCUIT DIAGRAM:-

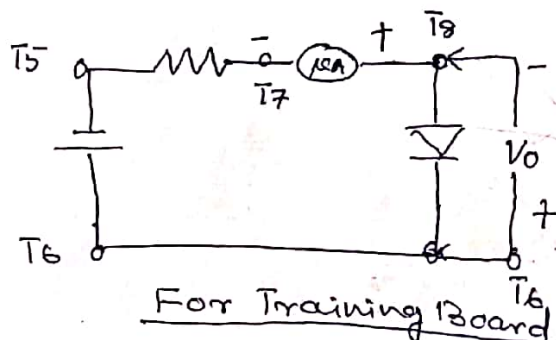
Forward bias:-



Reverse bias:-



For Bread Board



For Training Board

3

**PRECAUTION:**

Check the connection before switched ON.

**TABULATION:-**

Forward bias				Reverse Bias			
Sl. no.	i/p volt	$V_d$	$I_d$	Sl. no.	i/p volt	$V_d$	$I_d$