



36364 Experimentation with Zener Diode Voltage Regulator has been designed specifically for the study of regulated power supply based on zener diode. As zener diode is generally employed in a standard circuit as a voltage regulator, it is very useful for students to study the operation of zener diode as a voltage regulator with the variation in source voltage and load resistance. This training board is provided with different sections of a regulated power supply i.e. step-down transformer, bridge rectifier, capacitive filter and voltage regulator.

The board is absolutely self contained and requires no other apparatus.

Practical experience on this board carries great educative value for Science and Engineering Students.

Object

1. Study of Zener Diode as a Voltage Regulator, when input voltage, (V_{in}) is fixed while load resistance (R_L) is variable
2. Study of Zener Diode as a Voltage Regulator, when input voltage, (V_{in}) is variable while load resistance (R_L) is fixed
3. To measure the Line and Load Regulation in Zener Diode Voltage Regulator

Features

The board consists of the following built-in parts :

1. Digital Voltmeter DC 31/ Digit 0-20V 2
2. Digital Currentmeter DC 31/ Digit 0-200mA 2
3. Transformer : 5 Tapping (4, 5, 6, 7 & 8V at 100mA)
4. Capacitor : 1000 μ F, 16V
5. Zener Diode : $V = 6V8$ ZD
6. Load Resistance : Total 6 each 120E
7. Mains Supply : 230V \pm 10%, 50Hz
8. Weight : 2.400 Kg Approx.
9. Dimensions (mm) : W340 x H125 x D210

List of Accessories

1. Patch cord 4mm Length 50cm Red.....04
2. Patch cord 4mm Length 50cm Black.....04

Note: Specifications are subject to change.