



36394 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.

Features

1. Provided with different sections of a regulated power supply
2. Good quality, reliable sockets and test points are provided
3. Strongly supported by systematic operating instructions and theoretical details
4. A low cost training system
5. Online product tutorial

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

Technical Specifications

Transformer	:	0 - 9V, 500mA (approximate)
Filter	:	Capacitive 1000 μ F, 35V
Zener Diode	:	$V_z = 5.6V$ $I_{ZM} = 178mA$
Potentiometer, P1	:	4.7kW
Potentiometer, P2	:	4.7kW
Mains Supply	:	230V \pm 10%, 50Hz
Dimensions (mm)	:	W 250 x D 150 x H 80
Weight	:	600g (approximate)

Note: Specifications are subject to change.