



Experimental Training Board has been designed specifically for the Study of Varactor Diode Characteristics.

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

Object:

01. To determine the Junction(transition) Capacitance of a Varactor Diode as a function of the reverse bias voltage and to evaluate the internal contact potential.
02. To use the Varactor Diode as a variable capacitor.

Features:

The board consists of the following built-in parts:

01. 0-10V D.C at 100mA, continuously variable regulated Power Supply.
 02. D.C. Voltmeter, 65 mm Rectangular dial to read 0-10V.
 03. Varactor Diode.
 04. Inductor and adequate no. of other electronic components.
 05. Mains ON/OFF switch, Fuse and Jewel light.
- * The unit is operative on $230V \pm 10\%$ at 50Hz A.C. Mains.
 - * Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length $\frac{1}{2}$ metre.
 - * Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections / observation of waveforms.
 - * Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Other Apparatus Required:

- * Digital Capacitance Meter
- * Audio Frequency Generator
- * Digital Frequency Counter
- * Cathode Ray Oscilloscope 20MHz

Note: Specifications are subject to change.

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