

**TO STUDY AND PLOT V/I  
CHARACTERISTIC OF POWER IGBT  
(INSULATED GATE BIPOLAR TRANSISTOR)  
OMEGA TYPE PET-449**



**OMEGA TYPE PET-449** has been designed specifically to study & Plot VI Characteristic of Power IGBT. The board is absolutely self contained.

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

**OBJECT**

01 To study and Plot V/I Characteristic of a Power IGBT.

02 To plot the  $V_{GE}/I_C$  Characteristics of an IGBT.

03 Switching characteristic of a power IGBT

**FEATURES**

The board consists of the following built-in parts:

- 01 IC regulated power supply 0-10V DC at 30mA.
- 02 IC regulated power supply 0-60V at 200mA.
- 03 Digital DC voltmeter range 0-20V
- 04 Digital DC voltmeter range 0-200V.
- 05 Digital DC Ammeter with selectable switch range 0-20/200mA.

06 One IGBT.

07 Adequate nos. of other electronic components.

08 Mains ON/OFF switch & Fuse.

09 The unit is operative on 230VAC  $\pm 10\%$  at 50Hz.

10 Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length 50cm.

11 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.

12 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

13 Weight : 5 Kg. (Approx.)

14 Dimension : W 340 x H125 x D 210.

**OTHER APPARATUS REQUIRED:**

- 01 Dual trace CRO 20MHz OMEGA TYPE CRO-20
- 02 Function generator OMEGA TYPE FG-321.

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

**OMEGA ELECTRONICS**