

Product Name :
Silicon Controlled Rectifier Characteristics

Product Code :
NLAB-ELECTRONICSAB420016

Description :

Silicon Controlled Rectifier Characteristics

Technical Specification :

Experimental Training Board has been designed specifically to study the Silicon Controlled Rectifier phase firing and D.C. control

characteristics. It is a training aid for advance studies in control circuits.

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

Object:

01. To study the D.C. gate control characteristics (firing characteristics) of a SCR.
02. To study and plot the anode current characteristics of a SCR.
03. To measure the holding current of a SCR.
04. To study the plot the phase firing characteristics of a SCR.

Features:

The Board consists of the following built-in parts:

1. 0 to 50V DC at 50mA, continuously variable Power Supply for Anode.
2. 0 to 3V DC at 50mA, continuously variable Power Supply for Gate.

3. 0-10V AC at 50Hz, variable Power Supply for Anode.
4. Digital Voltmeter DC 3½ Digit having Dual range of 20V/200V.
5. Digital Current meter DC 3½ Digit having range of 0-200mA.
6. Silicon Controlled Rectifier.
7. Fixed limiting resistances.
8. Adequate no. of other electronic components.
9. 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 4mm length 50cm.

Other Apparatus Required:

Vacuum Tube Voltmeter

Cathode Ray Oscilloscope 20MHz

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