

Product Name :
Triac Characteristics

Product Code :
NLAB-ELECTRONICSAB420013



Description :

Triac Characteristics

Technical Specification :

Experimental Training Board Has Been Designed Specifically To Study The Characteristics Of Triac-A Bidirectional Triode Thyristor.

Practical Experience On This Board Carries Great Educative Value For Science And Engineering Students.

Object:

1. To Study The Gate Characteristics Of A Triac In The Following Modes :

(A) Mode I+ : I.E. T2 Positive With Respect To T1 And Gate Positive With Respect To T 1

(B) Mode I- : I.E. T2 Positive With Respect To T1 And Gate Negative With Respect To T 1

(C) Mode Iii+ : I.E. T2 Negative With Respect To T1 And Gate Positive With Respect To T 1

(D) Mode Iii- : I.E. T2 Negative With Respect To T1 And Gate Negative With Respect To T 1

2. To Study The Terminal Characteristics Of A Triac In The Following Modes :

(A) Mode I+ : I.E. T2 Positive With Respect To T1 And Gate Positive With Respect To T 1

(B) Mode Iii+ : I.E. T2 Negative With Respect To T1 And Gate Positive With Respect To T 1

3. To Study The Following Applications Of Triac :

(A) Triac As A Static Switch (D.C. Control).

(B) Control Of A.C. With A.C. Signal.

(C) To Measure The Holding Current Of I_h . Triac.

Features

The Board Consists Of Following Built-In Parts:

01. 0-70V D.C. At 100Ma, Regulated Power Supply.
02. 0-3V D.C. At 30 Ma, Regulated Power Supply.
03. 55 Volt At 100Ma, Fixed A.C. Supply.
04. 7 Volt At 30Ma, Fixed A.C. Supply.
05. Digital Current Meter Dc $3\frac{1}{2}$ Digit Having Dual Range Of 20Ma / 200Ma .
06. Digital Voltmeter Dc $3\frac{1}{2}$ Digit Having Dual Range Of 2V / 200V.
07. Digital Current Meter Dc $3\frac{1}{2}$ Digit Range Of 200Ma .
08. Triac.
09. Three Potentiometers.
10. Reset Switch.
11. Adequate No. Of Other Electronic Components.
12. 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 Stack able From Rear Both Ends 4Mm Spring Loaded Plug Length $\frac{1}{2}$ Metre.

Other Apparatus Required

Cathode Ray Oscilloscope 20Mhz

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