

Bistable Multivibrator using Transistor

Model : SE-119



SINCOM SE-119 Bistable Multivibrator using Transistor is a remarkable self contained useful trainer with two CE mode NPN Transistors and resistive positive feedback to provide Bistable Multivibrator Output for the applied two trigger inputs in a simple experimental way.

Features

- ❖ Silicon NPN BJT of TO-92 package on board
- ❖ Two NPN Transistor as CE switching Amplifier with resistive feedback elements.
- ❖ Resistive Identical collector load
- ❖ Push-To-On SET and RESET Input switches
- ❖ Two LED load to indicate Set/Reset output
- ❖ In-Built Fixed regulated DC Power Supply
- ❖ User friendly Design
- ❖ Very Easy for Operation
- ❖ Multi color Circuit Diagram is printed on the front panel of the white acrylic board
- ❖ Enclosed in an attractive, light weight, High Quality, Poly Coated Imported Pine Wooden cabinet
- ❖ Facility to connect external Trigger Input, Oscilloscope and Digital Meters.
- ❖ Interconnections by 2mm high quality banana sockets and pins
- ❖ Maximum Test points to explore all the corners of experiment
- ❖ 1 Year Warranty

Technical Specifications

▪ AC Mains Power Supply	: $230V \pm 10\%$, 50Hz
▪ DC Power Supply	: IC Regulated Fixed $+12V/300mA$
▪ Multivibrator type	: Bistable
▪ Transistor Type and Package	: Two BJT Silicon NPN BC548, TO-92 Package
▪ Amplifier Type	: Base Biased CE Switching Amplifier



An ISO 9001:2015 Co.

▪ Feedback Elements	: Two Resistors
▪ Collector load	: Identical Resistive load of 10KΩ
▪ Internal Trigger Inputs	: 10V DC Inputs by two Push-to-On switch for SET and RESET
▪ Output Indicator	: Two Red LEDs as SET and RESET output
▪ Switching Control by	: By Push-to-On switches
▪ Max. Collector Emitter Voltage	: 12 VDC
▪ Weight	: 2.0 kg (approx)
▪ Dimensions (mm)	: L 220 x W 270 x H 110
▪ Interconnections	: 2mm Banana sockets
▪ Operating Temperature	: 0-50°C, 80% RH

Learning Scope

- To Study operation of Bistable Multivibrator using transistor.
- To Observe & Note the two outputs w.r.t. applied SET & RESET Trigger Inputs.
- Compare the Theoretical & Practical values.

Other Instruments Required : Digital Multimeter

Accessories Included : Set of Patch Cord and Details Instruction Manual.