

## Current Time Base Generator

### Model : SE-125

**SINCOM SE-125 Current Time Base Generator** is a useful trainer of CE mode transistors wired as to produce current time base (sweep) generator output for the applied trigger Input signals in a simple experimental way.

### Features

- ❖ NPN Transistors in CE mode connected with two Darlington transistors mapped with Resistors, Inductors and Capacitors to produce Current Time Base Generator (Sweep) output.
- ❖ Silicon NPN BJT of TO-92 package on board
- ❖ Resistive and Inductive load
- ❖ Wide range of Current Time base Sweep output
- ❖ Facility to connect square wave Input signal
- ❖ 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 function generator, 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

▪ DC Power Supply	: IC Regulated Fixed +12V/300mA
▪ Transistor Type and Package	: Three BJT Silicon NPN BC548, TO-92 Package
▪ Amplifier Type	: CE and Darlington Transistor Amplifier
▪ Feedback Elements	: RC network
▪ External Trigger Input	: Square Input
▪ Collector load	: Inductive load
▪ Output waveform	: Current Time base Sweep signal
▪ Max. Collector Emitter Voltage	: 12 VDC
▪ AC Mains Power Supply	: 230V $\pm$ 10%, 50Hz
▪ 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 Transistor Voltage Time Base (sweep) generator circuit.
- To Observe & Note Voltage Time Base (Sweep) waveforms w.r.t. change in applied Trigger I/P.

**Other Instruments Required :** Oscilloscope, Function Generator 1MHz and Digital Multimeter.

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