

Voltage and Current Time Base Generator

Model : SE-126

SINCOM SE-126 Voltage and Current Time Base Generator is a combined useful trainer of NPN transistors in CE mode wired as to produce voltage time base (sweep) and current time base (sweep) generator output for the applied trigger Input signals in a simple experimental way.

Features

- ❖ Separate modules of Voltage and Current Time Base Generator
- ❖ Two NPN Transistor as CE amplifier with RLC feedback elements to produce Voltage Time Base Generator (Sweep) output.
- ❖ 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 Voltage and 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	: Five BJT Silicon NPN BC548, TO-92 Package
▪ Amplifier Type	: CE for voltage & CE and Darlington for current
▪ Feedback Elements	: RLC network for voltage & RC for current
▪ External Trigger Input	: Square Input
▪ Collector load	: Resistive for voltage & Inductive load for current
▪ Output waveform	: Voltage Time base and 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 245 x W 320 x H 115
▪ 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 Study operation of transistor Current Time Base (sweep) generator circuit.
- To Observe & Note Voltage and current Time Base (Sweep) waveforms w.r.t. change in Trigger I/P.

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

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