

Diode Clippers and Clampers Circuit (All Types)

Model : SE-134



SINCOM SE-134 Diode Clippers and Clampers circuit is a remarkable All-In-One useful trainer with PN Junction Diode, resistors, capacitors and variable positive/negative bias voltage to provide Diode shunt positive, negative, combinational with & without bias clippers and Diode Positive/Negative clampers with & without bias, with facility to vary the clipping and clamping level in a simple experimental way.

Features

- ❖ Separate modules of Diode Clipper and Clamper
- ❖ Six Silicon Diodes DO-41 package
- ❖ Positive and Negative variable DC bias voltage
- ❖ AC Input on board
- ❖ Clipping and Clamping level control
- ❖ Facility to select different types of clippers and clampers
- ❖ Facility to connect external AC Input
- ❖ 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 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

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| ▪ AC Mains Power Supply | : 230V \pm 10%, 50Hz |
| ▪ DC Power Supply | : IC Regulated Fixed +12V, -12V/500mA |
| ▪ Clipper type | : Positive, Negative, Combinational with/without Bias |



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|--------------------------|--|
| ▪ Clamper type | : Positive and Negative with/without Bias |
| ▪ Diode Used and Package | : 6 Silicon Diodes 1N4007 |
| ▪ Bias Voltage | : DC Variable 0 to +12V and DC Variable 0 to -12V |
| ▪ AC Input Voltage | : AC 12V, 50 Hz supply |
| ▪ Clipper Output | : Positive, Negative & Combination variable clipping level |
| ▪ Clamper Output | : Positive and Negative variable clamping level |
| ▪ Weight | : 3.0 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 Shunt Unbiased Positive & Negative Diode Clipper.
- To Study Shunt Biased Positive & Negative Diode Clipper.
- To Study Shunt Combination/Compound Diode Clipper. To Observe & Note change in Clipped O/P w.r.t. applied AC I/P Signal.
- To Study Shunt Unbiased Positive & Negative Diode Clamper.
- To Study Shunt Biased Positive & Negative Diode Clamper.
- To Observe & Note change in Clamped O/P w.r.t. applied AC I/P Signal.

Other Instruments Required : Oscilloscope and Function Generator 1MHz.

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