

MOSFET as a Switch

Model : SE-140

SINCOM SE-140 MOSFET as a Switch is a useful trainer to study the operation of MOSFET switching characteristics in a simple experimental way.

Features

- ❖ N Channel E type MOSFET with LED load in CS mode operates as a MOSFET Switching circuit
- ❖ N-Channel Enhancement type power MOSFET of TO-220 package on board
- ❖ LED Drain Load
- ❖ Variable DC Control voltage on board
- ❖ 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 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/500mA
▪ Transistor Type and Package	: N Channel Enhancement type MOSFET, TO-220 Package
▪ MOSFET Used	: IRF540/840
▪ MOSFET Configuration	: Common Source (CS) mode
▪ Switching circuits	: One
▪ DC Control voltage	: Gate DC 0-12V variable, Drain DC 0-12V variable voltage
▪ Load	: Resistive and LED
▪ Output Indicator	: LED
▪ Max. Drain Source 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 the MOSFET as a Switch.
- To Determine MOSFET ON & OFF Resistance.
- To study the input and output characteristics.

Other Instruments Required :

Digital Multimeter

Accessories Included :

Set of Patch Cord and Details Instruction Manual.