MOSFET as a Relay Driver Circuit

Model : SE-147

SINCOM SE-147 MOSFET as a Relay Driver Circuit is a useful trainer to study the operation of Relay Driving using MOSFET and application with reset facility in a simple experimental way.

Features

- N Channel E type MOSFET based SPDT Relay Driver Circuits.
- LED and Buzzer Indicator
- Trigger and Reset Push switch
- MOSFET Switching Characteristics in CE mode
- N-Channel Enhancement type power MOSFET of TO-220 package on board
- DC Input 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 Multimeter.
- 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 ±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
Relay type	: SPDT 12V,300Ω
Driver Circuits	: Drain and Source Drive
DC Input voltage	: Variable 0-12V
Trigger Switch	: One Push-to-ON
Reset Switch	: One Push-to-Off
Load	: Resistive and LED
Output Indicator	: LED and Buzzer
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^{0}C, 80% RH

Learning Scope

- To Study MOSFET as a switch circuit.
- To Study MOSFET as a Relay Driver circuit.
- To observe and note change in O/Ps w.r.t. change in trigger Input.

Other Instruments Required : Digital Multimeter

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

Subject to Change