

Schottky Diode Characteristics with Digital Meters

Model : SA-105DM

SINCOM SA-105DM Schottky Diode Characteristics with Digital Meters is self contained trainer which is very useful to study the rectification characteristics of Schottky Diode for the applied high frequency sinusoidal input. The schottky Diode is low voltage drop, low power device which is widely used in different applications like a mixer, in radio frequency applications, and as a rectifier in power applications. The trainer is simply designed to plot the Schottky Diode characteristics and determine its parameters in a simple experimental way. The trainer is equipped with on board Digital voltmeter and Digital Ammeter.

Features

- ❖ Low power Schottky Diode in DO-41 package
- ❖ One Schottky Diode is provided
- ❖ Low forward voltage drop
- ❖ High operating Temperature range and High Operating frequency
- ❖ In-Built Variable regulated DC Power Supply
- ❖ Circuit Diagram printed in multi color on the front of the board
- ❖ Enclosed in an attractive, light weight, High Quality, Poly Coated Imported Pine Wooden cabinet
- ❖ On Board 3^{1/2} Digit Digital Voltmeter and Ammeter
- ❖ User friendly Designed
- ❖ Very Easy for Operation
- ❖ 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	: 230 ±10%, 50Hz
▪ DC Power Supply	: IC Regulated Variable 0V to +12V / 500mA
▪ Diodes Used	: One Schottky Diode-Si type
▪ Diode Package	: DO-41 Tape and Reel type
▪ Input Signal Frequency	: Sine wave 2MHz max
▪ Forward current	: 1A
▪ Operating Junction Temperature	: -65 to +125 ⁰ C
▪ Forward Voltage Drop	: 1.0 V @
▪ Power dissipation	: 1W maximum
▪ Digital Voltmeter	: 0-20V
▪ Digital Ammeter	: 0-20mA
▪ Meter Display	: Red Color, 3 ^{1/2} Digit , LED Display
▪ 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 the characteristics of Schottkey Diode.
- To Study the rectification characteristics of Schottkey Diode with respect to change in Input Signal frequency upto 2MHz.

Other Instruments Required : Nil

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