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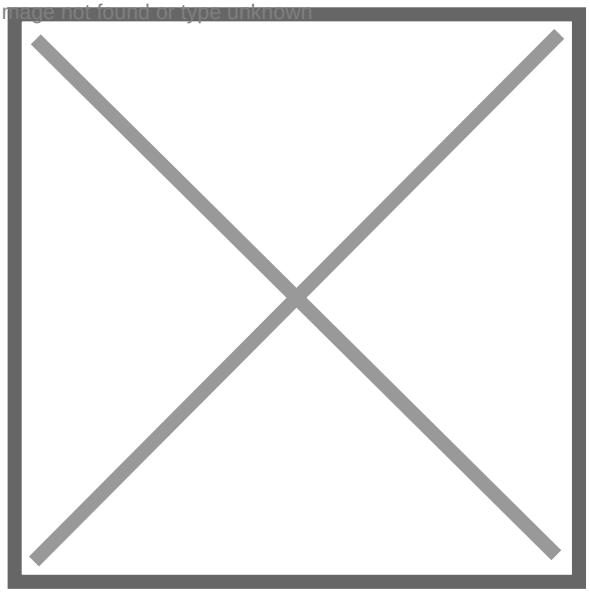
Product Name :

Zener Diode Experiment Circuit Board

Product Code :

SCL-431/112

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Description :

Zener Diode Experiment Circuit Board (Product Code: SCL-431/112) is a self-contained Zener diode kit used to plot the forward and reverse V-I characteristics of a Zener diode in physics and electronics labs. It has a built-in 0–15 V DC, 150 mA regulated supply, two round meters for voltage and current, and 3 Zener diodes mounted behind the panel. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer and physics instruments supplier in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Experiment	Forward and reverse V-I characteristics of a Zener diode
Power supply	DC regulated, 0–15 V DC / 150 mA
Meters	Two round meters, for voltage and current
Diodes	3 Zener diodes mounted behind the panel
Connections	Supply, meters and diodes brought out to 4 mm sockets
Product code	SCL-431/112
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Zener Diode Board Used For?

Students wire the supply, meters and chosen Zener diode through the 4 mm sockets, then raise the voltage in small steps and record current against voltage. In forward bias the Zener conducts like an ordinary diode after a small threshold; in reverse bias the current stays tiny until the breakdown voltage, where it rises sharply while the voltage stays nearly constant, the property used for voltage regulation.

Having 3 Zener diodes on one board lets groups repeat or compare readings on a second device without rewiring the whole circuit. Start each run from 0 V, raise the supply slowly near breakdown, and switch off before changing connections. Used alongside a semiconductor diode kit, it completes the diode-characteristics practicals in a senior secondary physics lab.

OEM Manufacturer

ScienceLab, the trading name of Jain Scientific Equipments Private Limited, is the OEM (original equipment manufacturer) of the Zener Diode Experiment Circuit Board. The board, with its supply, meters and panel-mounted diodes, is made and assembled at the company's own licensed factory at Saha, Ambala, Haryana, India, rather than sourced from a trader. Schools, colleges, institutions, dealers and importers are supplied factory-direct, and service or spares questions are handled by the manufacturer, so ask us. See the ScienceLab company profile.

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Items

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