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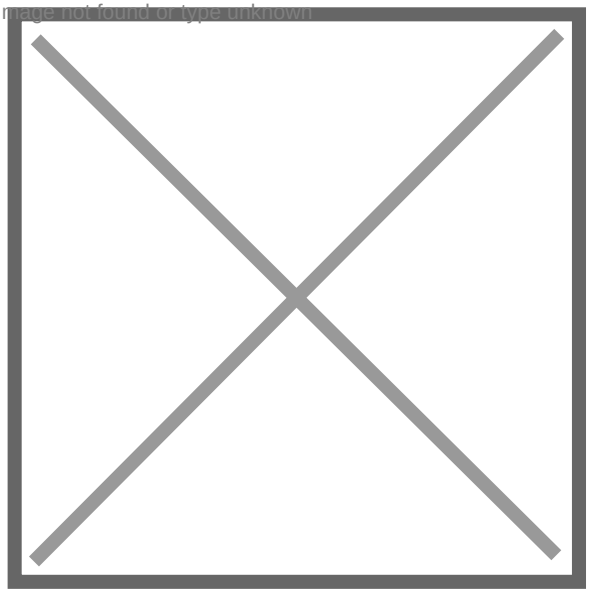
Product Name :

Semiconductor Diode

Product Code :

SCL-443/118

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Description :

Semiconductor Diode (Product Code: SCL-443/118) is a two-terminal electronic component used to demonstrate one-way current flow and rectification in physics and electronicslaboratories. Offered in different values, it serves students plotting forward and reversecharacteristics and building simple rectifier circuits, and it is described as reliable in operation withlow maintenance. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala,with its other physics lab equipment in India, for schools assembling a semiconductor diode kit forphysics practicals.

Key Details

Parameter	Detail
Type	Semiconductor diode
Values	Different values available
Listed features	Reliable operation; low maintenance
Product code	SCL-443/118
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Semiconductor Diode Used For?

A semiconductor diode lets current pass easily in one direction and blocks it in the other. In the lab it is used for the I–V characteristic experiment, where students record current against voltage in forward and reverse bias, and for half-wave and full-wave rectifier demonstrations that turn AC into pulsating DC. It also shows how a circuit can be protected against a reversed battery connection.

Mark the cathode end, usually shown by a band on the body, before wiring, and include a series resistor so forward current stays within safe limits. Forward current rises quickly just above the knee voltage, so taking small voltage steps in that region gives a smoother curve. A milliammeter in series and a voltmeter across the diode give readings that tabulate cleanly.

What to Specify When Ordering

- The diode value or type number your experiment calls for.
- Number of pieces per bench, including spares.
- Whether a PN Junction Diode or Zener Diode is also required for comparison experiments.

Supplier

Jain Scientific Equipments Private Limited, trading as ScienceLab, supplies the Semiconductor Diode from Ambala, Haryana, to schools, colleges, laboratories and dealers in India and international markets. Departments equipping several benches at once can combine diodes with meters, resistors and power supplies in a single enquiry. Visit the ScienceLab company profile for more about the company.

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