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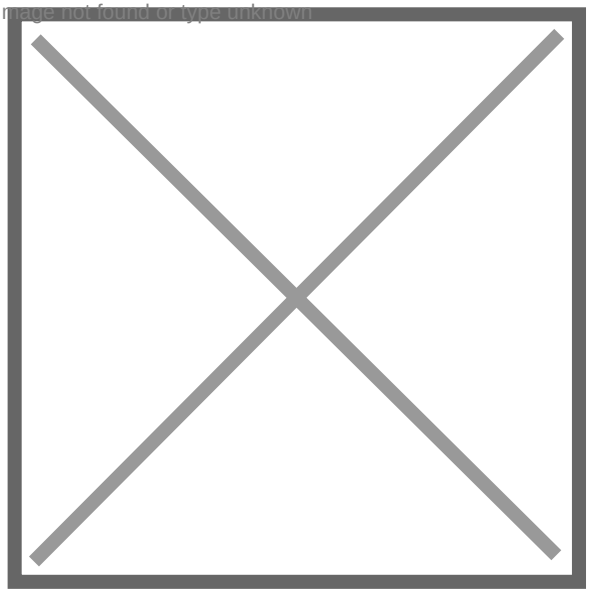
Product Name :

Zener Diode

Product Code :

SCL-435/114

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Description :

Zener Diode (Product Code: SCL-435/114) is a board-mounted semiconductor diode used to study reverse breakdown and voltage regulation in school and college physics laboratories. Students and lab instructors use it for diode characteristic practicals, and it is listed with a working range of 0–10 V. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, as a routine item of physics practical equipment for CBSE and other school boards.

Specifications

Parameter	Detail
Component	Zener diode
Mounting	Mounted on a board
Range	0–10 V
Product code	SCL-435/114
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Zener Diode Used For?

A Zener diode conducts like an ordinary diode in the forward direction, but it is designed to workin reverse bias once its breakdown voltage is reached, holding the voltage across it almostconstant. In the physics lab this makes it the standard component for plotting the reverse characteristic curve and for showing how a simple voltage regulator works. Having the diode mounted on a board makes the small part easier to handle and wire into a circuit than a loose component.

A typical set-up connects the board in reverse bias through a series resistor to a DC source, with a voltmeter across the diode and a milliammeter in series. Students raise the supply in small steps and note the point where current starts to climb sharply. Always keep a series resistor in the circuit, because above breakdown the current is limited only by the external circuit.

What to Specify When Ordering

- Quantity: one Zener Diode board per student group or bench, plus spares.
- Range: check that the listed 0–10 V range suits the experiment in your practical manual.
- Board only or full set-up: say whether you need just this Zener Diode or the complete Zener Diode Experiment Circuit Board.
- Instruments: list any voltmeters, milliammeters or DC sources you want quoted alongside it.

Supplier

Jain Scientific Equipments Private Limited, which trades as ScienceLab, supplies the Zener Diode from Ambala, Haryana, to schools, colleges, training institutes and dealers in India and international markets. Semiconductor parts like this are usually ordered together with meters, power sources and connecting leads, so one enquiry can cover a complete diode bench. Read more on the ScienceLab company profile.

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