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Product Name :

Electron Tube Diode S

Product Code :

SLE/PHY/306



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Description :

Electron Tube Diode S (Product Code: SLE/PHY/306) is a high-vacuum electron tube with a thermionic cathode used to demonstrate the Edison effect and diode rectification in advanced school and college physics laboratories. Part of the newer S range, whose connections sit on the stand rather than on the tube, it gives an anode current of approximately 2 mA at 200 V and accepts up to 500 V on the anode. This physics lab equipment item is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Tube type	High-vacuum electron tube with thermionic cathode
Range	S range (connections on the stand)
Anode current	Approx. 2 mA at 200 V anode voltage
Max. heater voltage	7.5 V AC/DC
Max. anode voltage	500 V
Documentation	Instructions included
Listed for use with	EHT power supply, digital meter with two shunts, shrouded test leads (red and black)
Tube family	S type
Product code	SLE/PHY/306
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Electron Tube Diode S Used For?

The Edison effect was first noticed as a small current reaching an extra electrode inside a lamp bulb, and it is now understood as electrons boiling off a hot filament. With the Electron Tube Diode S, students heat the cathode, make the anode positive and watch the emission current appear, then reverse the anode and see it stop. The same tube lets them measure how the emission current changes as the applied voltage is raised, giving the familiar diode characteristic.

Applying an alternating voltage to the anode shows rectification: current flows only during the half-cycles when the anode is positive. Keep the heater at or below 7.5 V and the anode at or below 500 V, use shrouded leads for every high-voltage connection, and follow the instructions supplied with the tube.

What to Specify When Ordering

- Whether you already have a S-range stand, since the connections for this tube are on the stand.
- Whether you need the EHT power supply and the digital meter with two shunts listed for
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