Email : sales@scilabexport.com
Phone: +91-7082934803

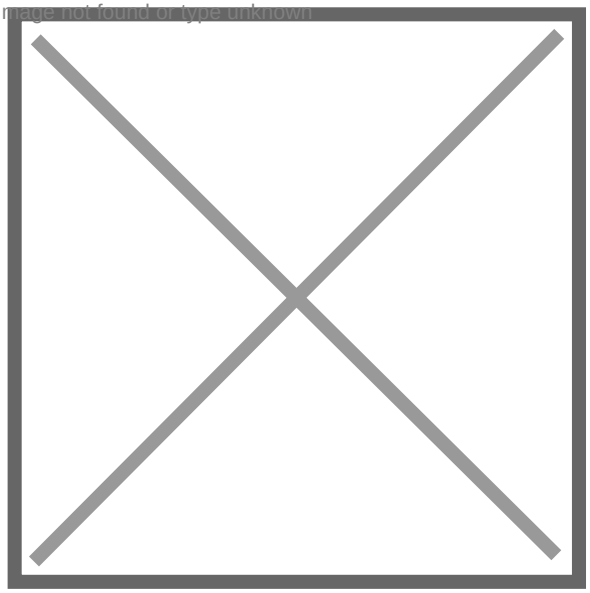
Product Name :

NPN Transistor

Product Code :

SCL-439/116

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Description :

NPN Transistor (Product Code: SCL-439/116) is a bipolar junction transistor used todemonstrate switching and amplification in school, college and hobby electronics labs. Studentsuse it in amplifier circuits, mini and major electronics projects and DIY builds, and it is listed with a maximum power dissipation of 625 mW and a collector current of 0.6 A. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, alongside its physics lab equipment for India and international markets.

Specifications

Parameter	Detail
Type	NPN bipolar junction transistor
Values	Different values available
Maximum power dissipation	625 mW
Collector current	0.6 A (600 mA)
Suited to	Circuits needing a low-current, high-speed transistor; amplifier, project and DIY work
Product code	SCL-439/116
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the NPN Transistor Used For?

In an NPN transistor a small current flowing into the base controls a much larger current between collector and emitter. That behaviour lets students build a simple amplifier, use the transistor as an electronic switch for a lamp or relay, and plot input and output characteristics in the common-emitter configuration, a standard senior-secondary practical. Its listed rating suits the low-current, high-speed circuits used in electronics projects.

When wiring the circuit, identify the emitter, base and collector from the pin diagram for the value supplied, always place a resistor in the base lead, and keep collector current and power well inside the 0.6 A and 625 mW limits. Readings taken with a milliammeter and voltmeter at small steps give smooth characteristic curves for the practical record.

What to Specify When Ordering

- Transistor value: state the value or type number your circuit diagram specifies, as the NPN Transistor is offered in different values.
- Quantity: pieces per student group, with spares for project work.
- Complementary type: say if PNP transistors are also needed.
- Bench items: meters and a DC source to be quoted along with it.

Supplier

Jain Scientific Equipments Private Limited, known by its trading name ScienceLab, supplies the NPN
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