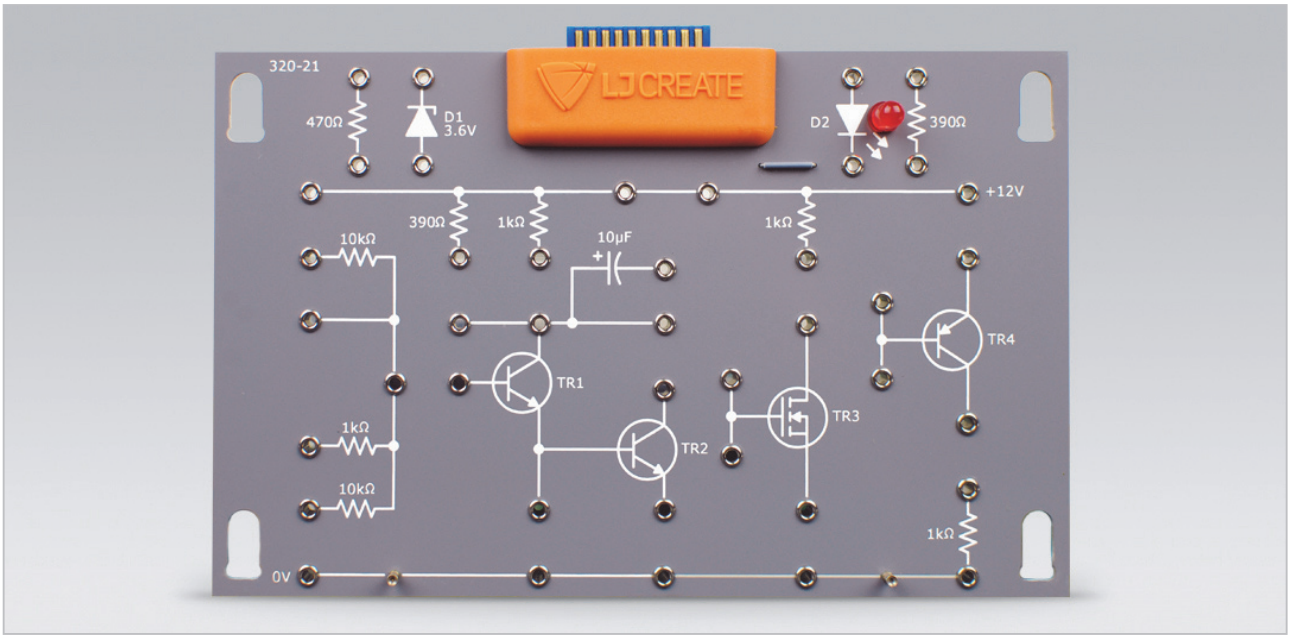
Product Information Sheet

Diodes and Transistors Card



This practical resource allows students to investigate semiconductor diodes and transistors through a range of practical activities.

The card is designed for use with the Electronics Study Trainer (320-00).

Practical activities based around this card are available within the digital curriculum materials provided with the Electronics Study Trainer.

The card may also be used with our optional cloud-based software. This contains theory presentations, investigations, and assessments, which link directly to the practical activities carried out using this resource.

.

The Card Includes the Following:

- Zener diode
- Light emitting diode (LED)
- NPN bipolar transistors (x2) in Darlington configuration
- PNP bipolar transistor
- Field effect transistor (FET)
- Switched faults for fault-finding activities

Practical Tasks Include the Following:

- Voltage Stabilisation using a zener diode
- PNP transistor switch
- NPN transistor as a voltage amplifier
- FET operation
- Testing and fault-finding diode and transistor circuits

Items Included:

- Circuit Card

Other Items Required:

- Electronics Study Trainer (320-00)
- Digital Multimeter
- Dual Trace Oscilloscope

General Information:

Card Dimensions:
160 x 100 x 20 mm (W, H, D)

Packaging:
Orders for multiple 320-series cards are shipped in storage boxes.

Shipping Volume:
Single card: 0.001 m^3
Storage box: 0.015 m^3

Shipping Weight:
Single card: 0.2 kg
Storage box: 0.5 kg

Please contact LJ Create for estimated shipping volume and weight for your specific order requirements.

Order Code: 320-21

P9001-E

For more information visit www.ljcreate.com