



doped

ELECTRONIC DEVICES



DL 3155M11

THEORETICAL TOPICS

- Physics of the semiconductors and joint P-N
- Semi conductive material
- Formation of a joint P-N
- Polarization of a joint P-N
- The ideal diode and the real diode
- Diode in dc circuits
- Check of the integrity of a diode through an ohmmeter
- Direct polarization
- Inverse polarization
- The Zener diode
- The diode as stabilizer
- The LED diode

CIRCUIT BLOCKS

properties

• Direct and inverse polarization of a diode

The design and construction of electronic

circuits to solve practical problems is an essential technique in the fields of electronic

With this board the students can study the

semiconductor material, the properties and the electric behaviour of a joint P-N and how a joint P-N is realized to be able to describe with the right terminology the joint P-I behaviour.

pure

and

engineering and computer engineering.

the

of

- Voltage at the diode ends
- Minimum and maximum voltages
- Minimum and maximum voltages with series connected diodes
- Characteristics of the Zener diode
- Zener diode as a voltage stabilizer
- Voltage value on a Zener diode
- Characteristics of a LED diode
- Seven segment digital display

Complete with theoretical and practical manual.

Dimensions of the board: 297x260mm

