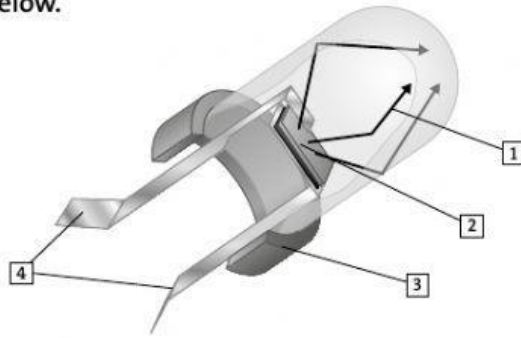


1 Label the diagram with the parts listed below.

emitted light beams terminal pins
diode transparent plastic case

- 1 _____
- 2 _____
- 3 _____
- 4 _____



2 Complete the text with the words listed below.

diodes protects blocks direction electronics

A device that _____¹ current in one direction while letting current flow in another _____² is called a diode. _____³ can be used in a number of ways. A device that uses batteries often contains a diode that _____⁴ the device if you insert the batteries back to front. The diode simply blocks any current from leaving the battery if it is reversed – this protects the sensitive _____⁵ in the device.

3 Choose the correct word to answer the questions.

- 1 What do capacitors store?
a protons b neutrons c electrons
- 2 What separates the two terminals inside a capacitor?
a metal b water c nonconductive material
- 3 What types of devices do Mylar capacitors usually power?
a radio tuning circuits b timing circuits c antennas
- 4 If you charge a capacitor using a 1.5-Volt battery, how much voltage will the capacitor gain?
a 0 Volts b 1.5 Volts c 3 Volts

4 Read the text and answer the questions.

Integrated circuits

There are two basic types of integrated circuit (IC) – monolithic and hybrid. Monolithic ICs include the entire circuit on a single silicon chip. They can range in complexity from a few transistors to millions of transistors on a computer microprocessor chip. A hybrid IC has a circuit with several chips enclosed in a single package. The chips in a hybrid IC may be a combination of transistors, resistors, capacitors, and monolithic IC chips. A printed circuit board, or PCB, holds an electronic circuit together.

- 1 What are the two basic types of integrated circuits?

- 2 Which type of IC includes the entire circuit on a single silicon chip?

- 3 The chips in a hybrid IC may be a combination of which components?

- 4 What is PCB an abbreviation for?
