

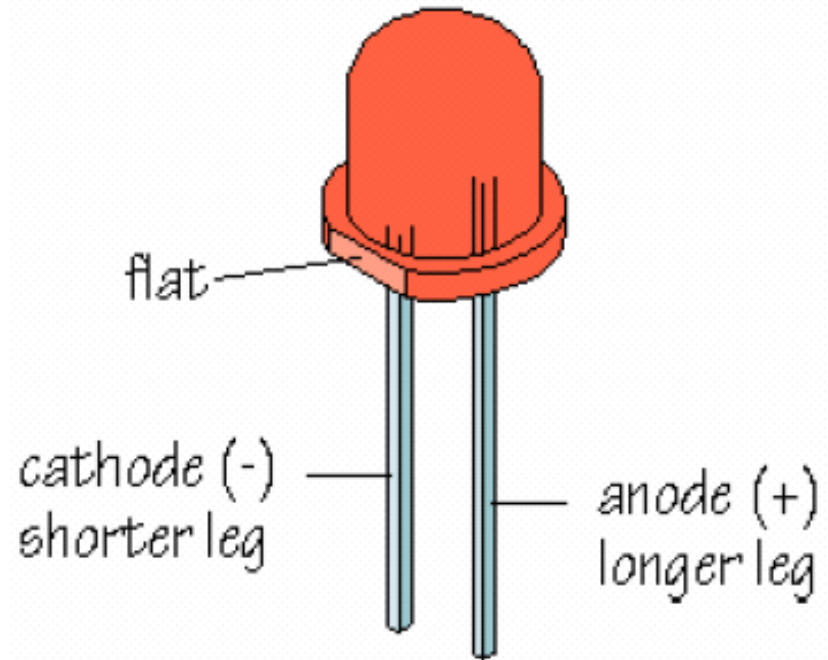
# **Light Emitting Diode: LED**

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# What is an LED?

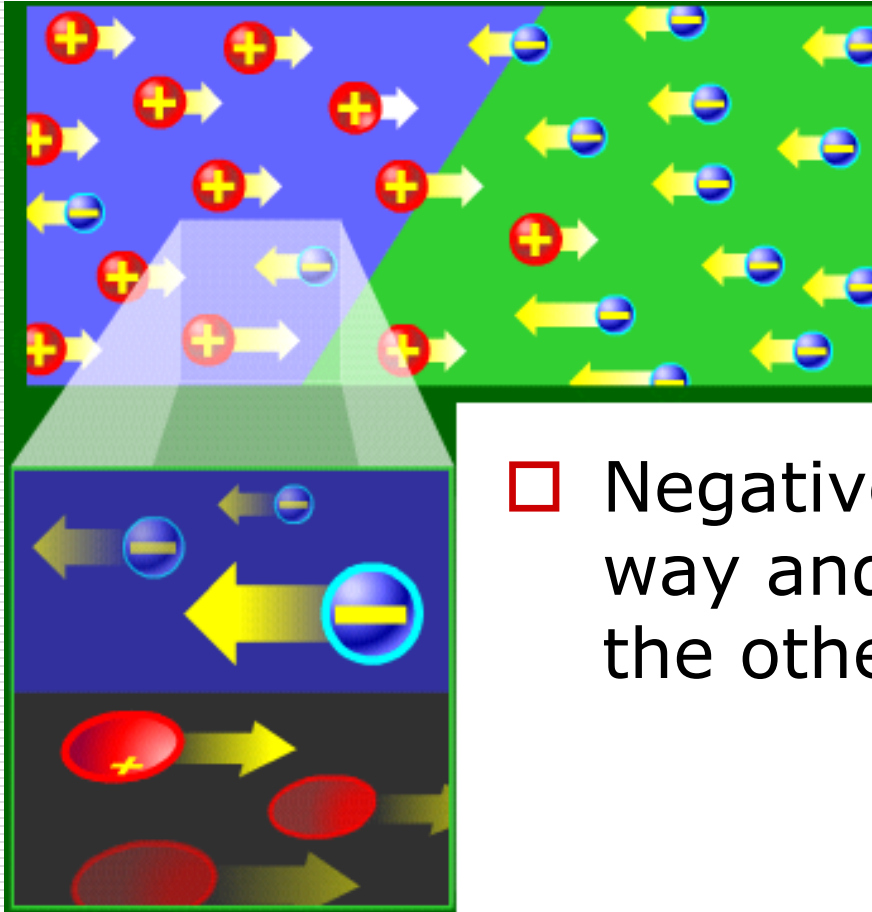
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- ❑ Light-emitting diode
- ❑ Semiconductor
- ❑ Has polarity



# LED: How It Works

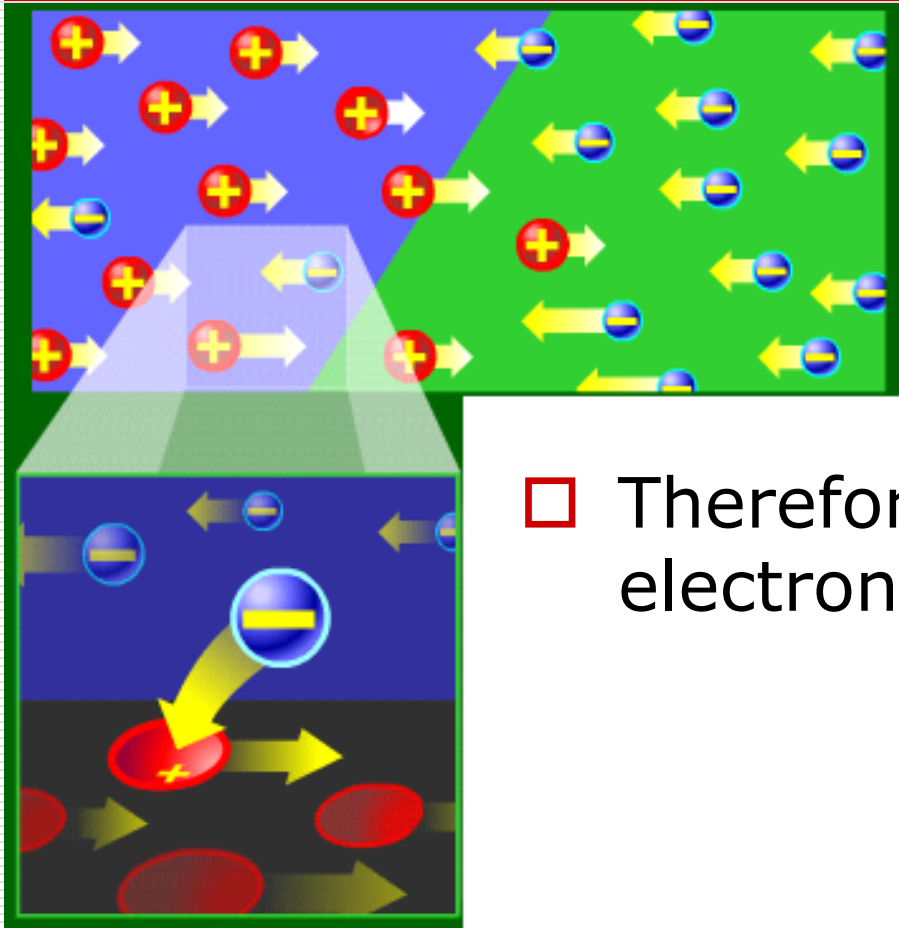
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□ When current flows across a diode

□ Negative electrons move one way and positive holes move the other way

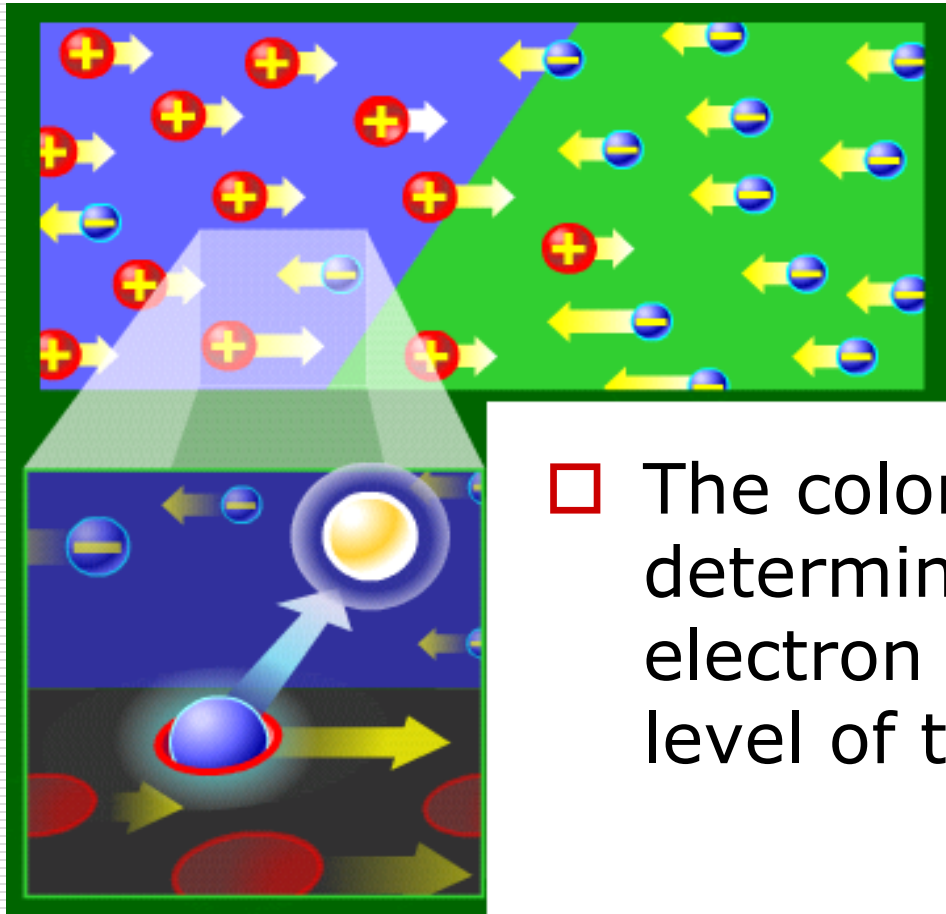
# LED: How It Works



- The holes exist at a lower energy level than the free electrons
- Therefore when a free electrons falls it losses energy

# LED: How It Works

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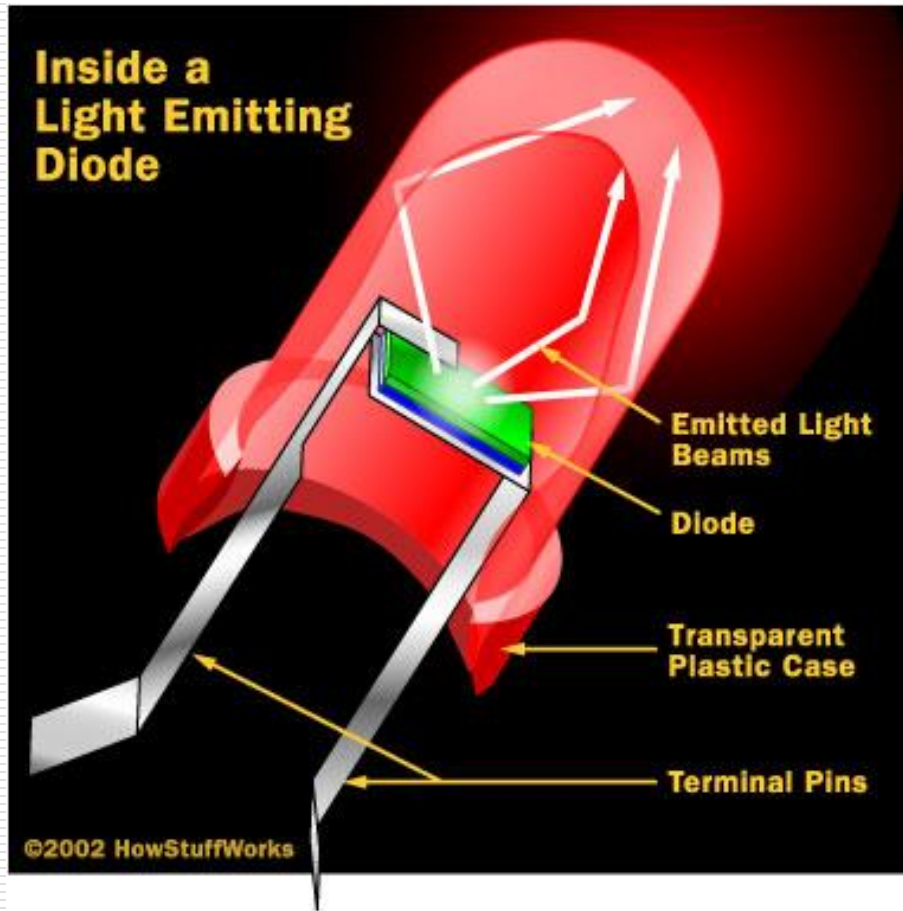


□ This energy is emitted in a form of a photon, which causes light

□ The color of the light is determined by the fall of the electron and hence energy level of the photon

# Inside a Light Emitting Diode

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1. Transparent Plastic Case
2. Terminal Pins
3. Diode

# Kinds of LEDs

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