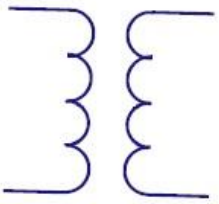
Electrical Drawing

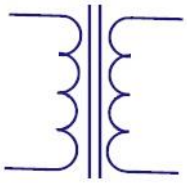
Electrical/Electronic Symbols

Transformer



Transformer are generally used in electric power applications to increase or decrease the voltage of AC current.

Iron Core

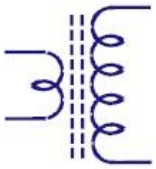


Uses a piece of magnetic material as core. Generally Ferro magnetic metals like iron are used.

Center Tapped

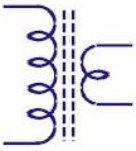
The center tapped transformer has its secondary winding divided into two parts with same number of turns in each part.

Step Up Transformer



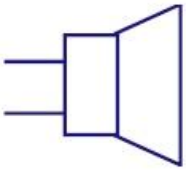
The no. of turns in secondary winding is more than that of primary winding.

Step Down Transformer



The no. of turns in secondary winding is less than that of primary winding.

Loud Speaker

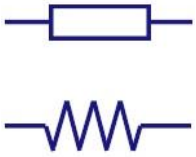


This is also an audio device. The electrical signal is converted into sound signal here.

Light Bulb

The symbol represents the light bulb. The bulb glows when required voltage is applied.

Fixed Resistor



It is a device that opposes the flow of current in a circuit.

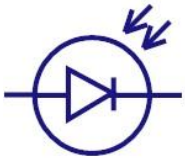
Pn Junction Diode

A PN junction diode allows the current to flow only in forward bias condition.

Zener Diode

In forward bias condition, it acts as normal diode and in reverse bias it act as regulator

Photodiode

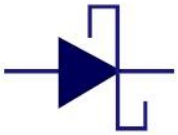


Photodiode detects the light energy and converts it into current or voltage.

Shockley Diode

This had fast switching operation and hence is used in switching applications.

Schottky Diode



It represents Schottky diode. It has low forward voltage drop

Tunnel Diode

This can switch very fastly and can perform well in micro wave frequency range.

Thyristor

They act as bistable switches and are used in circuits where high voltages and currents are involved.

Constant Current Diode

Also called as Current Limiting Diode or Current Regulating Diode. It limits the current to a specified maximum value

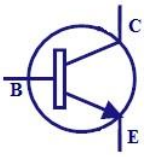
Variable Inductors

Movable ferrite magnetic core variable inductors are most common. The inductance is varied by sliding the core in or out of the coil..

Laser Diode

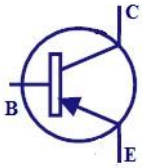
The laser diode is similar to light emitting diode Its used in laser printing, laser scanning etc.

NPN



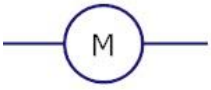
. It is switched ON when the base-emitter junction is forward biased. Its used for amplifying and switching applications.

PNP



It is switched ON when the base-emitter junction is reverse biased. These are used for amplifying and switching applications.

Motor



This converts the electric energy to mechanical energy.

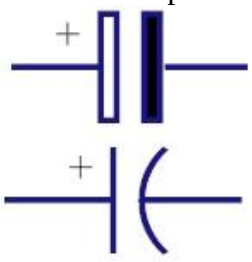
Fuse

Symbol represents the fuse that protects the circuit from over current.

Non Polarized Capacitor

Capacitor stores the charge in the form of electrical energy. Non-polarized capacitors are big in size with small capacitance. They can be used in both AC and DC circuits.

Polarized Capacitor



Polarized capacitors are small in size but have high capacitance. They are used in DC circuits.