

$I \propto V$
If physical condition of
conductors remain same

Electric Current = $\frac{\text{Charge}}{\text{Time}}$ $I = \frac{Q}{t}$
It's SI unit is ampere,
denoted by 'A'

Ohm's Law

Electric
Current

Electric
Circuit

The closed path along
which an electric
current flows



Electric Potential or
Potential difference

Work done to move a
unit charge from one
point to another

Power

Electricity

Factors on which
the Resistance of a
Conductor Depends

Length $R \propto l$

Temperature $R \propto T$

Area of cross section
 $R \propto 1/A$

Nature of the material

Joule's Law of
Heating Effect

$$H = I^2 R t$$

$$= V I t$$

$$1 \text{ Cal} = 4.18 \text{ J}$$

Danger of
mishandling
electric appliances

- Electrocution
- Electric Shock
- Bomb
- Fire

Resistivity

$$\rho = R \frac{A}{l}$$

SI unit = Ohm-meter (Ωm)
It depends upon the nature
of material.

$$R = V/I$$

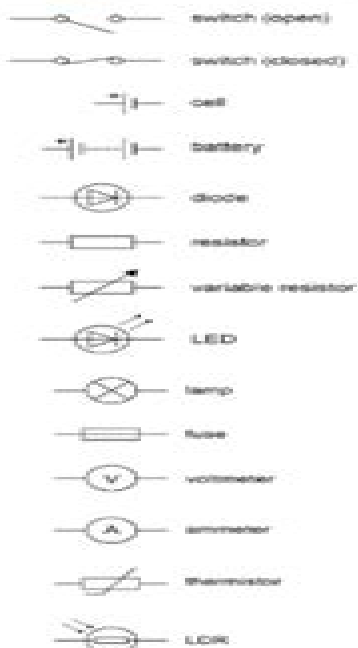
Resistance in Series Combination
 $R = R_1 + R_2 + R_3 + R_4$

Resistance in Parallel Combination
 $\frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \frac{1}{R_4}$

$P = VI = V^2/R = I^2 R$
Rate which electric
energy is dissipated

Power is the amount of
energy transferred or
converted per unit time
Unit (Watt)

Symbols of
Component of
Circuit Diagram



Electricity One

N Noddings



Electricity One:

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