

Chapter 12

CURRENT ELECTRICITY

Electric current:

The rate of flow of charge is called Current.

$$\text{Current} = \frac{\text{Charge}}{\text{Time}}$$

$$I = \frac{dQ}{dt} \quad \text{Or} \quad I = \frac{Q}{t}$$

SI Unit: Coulomb/sec (or) Ampere (A)

$$1 \text{ mA} = 10^{-3} \text{ A}$$

$$1 \mu\text{A} = 10^{-6} \text{ A}$$