There are two mechanisms for charge transport

Electric field

Diffusion

 $I = \frac{\Delta Q}{\Delta t}$

$$I = n \ q \ v_{drift} A$$

 $n A \Delta x$ $\Delta Q = (n A v_d \Delta t) q$

$$j = I_n = n q v_{drift}$$









There are two mechanismos for charge transport

Electric field

Diffusion



GENERATION OF CHARGE



GENERATION OF CHARGE

How can charges be created in a semiconductor?



GENERATION OF CHARGE









