

$$J_p(x)$$

$$J_p(x+\Delta x)$$

$$\Delta x$$

$$p$$

$$\text{Volume} = A \cdot \Delta x$$

$$\text{n-type}$$

$$\Delta p(0)=p_n$$

$$\Delta p(\infty)=0$$

$$p_{n0}$$

$$p_{n0}+\Delta p(x)$$

$$L_p$$

$$\rho(x)$$

$$x$$

$$x_1$$

$$\frac{\rho_0}{\epsilon}x_1$$