$$P(x > t)$$

$$t$$

Threshold

$$J_p(x)$$

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

$$\Delta x$$

$$p$$

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

n-type

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

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

$$p_{n0}$$

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

$$L_p$$

$$I_{sc}$$

$$V_{oc}$$

$$I_D(V_D)$$

$$V_D$$

$$I_{dark}$$

$$I_{light}$$

$$V_D$$

$$v_d$$

$$C_j$$

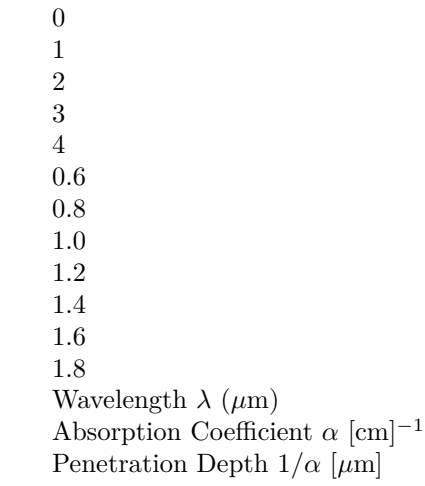
$$C_{\text{diff}}$$

$$g_d$$

$$E_g$$

Band Gap Energy E Wave Vector k

- GaAs
- Si
- InP
- Ge
- $\text{In}_{.53}\text{Ga}_{.47}\text{As}$


0
1
2
3
4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
Wavelength λ (μm)
Absorption Coefficient α [cm]$^{-1}$
Penetration Depth $1/\alpha$ [μm]