



(a)

(b)

$\xrightarrow{\text{E field}}$ $v_{dn} = -\mu_n E$

Electrons: $J_{drift|_n} = (-en)(-\mu_n E) = en\mu_n E$

$\mu_n = \frac{e\tau_n}{m_n}$

Holes: $J_{drift|_p} = (ep)(\mu_p E) = ep\mu_p E$

$\mu_p = \frac{e\tau_p}{m_p}$



