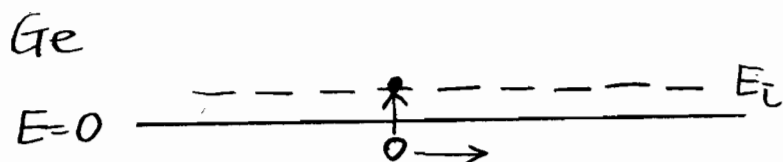


Photoconductor can be used for very long wavelength photodetectors using bandgap to impurity level transition

e.g.  $0.75 \text{ eV}$



$$\text{Cu: } E_i = 0.04 \text{ eV} \Rightarrow \lambda = 32 \text{ } \mu\text{m}$$

$$\text{Hg: } E_i = 0.09 \text{ eV} \Rightarrow \lambda = 14 \text{ } \mu\text{m}$$

Typical bias circuit

