

→ **Intrinsic** ←

→ **p-type** ←

$T = 0$   
intrinsic

$T > 0$   
intrinsic

$T = 0$   
p-type doped

$T > 0$   
p-type doped

$T \gg 0$   
p-type doped

CB

VB

Acceptor

