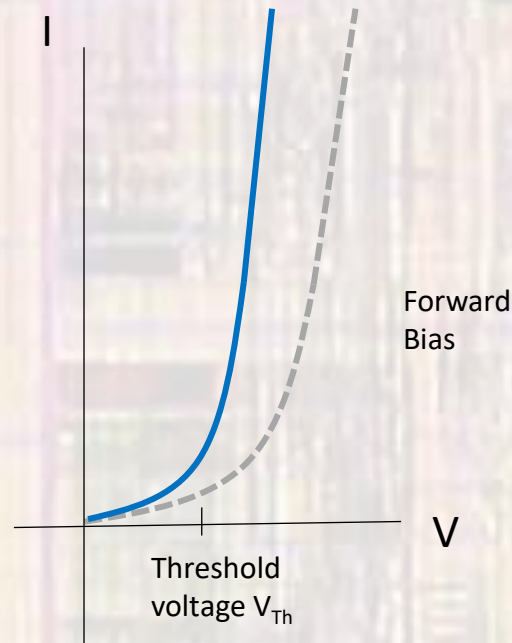


Other Diodes

Last updated 2/10/22

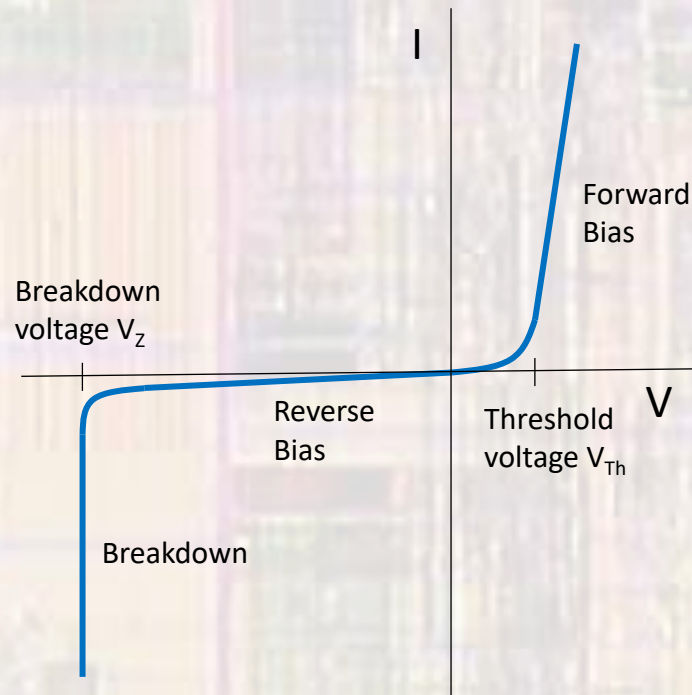
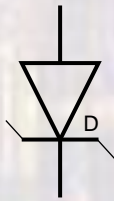
Other Diodes

- Schottky Barrier Diode
 - Metal – Semiconductor junction
 - Lower turn on voltage (0.2V to 0.3V)



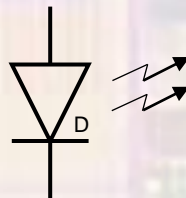
Other Diodes

- Zener Diode
 - Well managed breakdown voltage



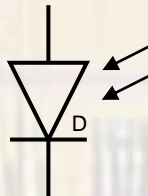
Other Diodes

- Light Emitting Diode
 - Direct bandgap semiconductor
 - When holes and electrons recombine in the bulk region photons are emitted
 - Typically higher turn on voltages (1.2V – 1.8V)



Other Diodes

- Photo Diode
 - P-I-N Diode
 - I is an intrinsic layer
 - Light applied to the intrinsic layer creates hole-electron pairs
 - These holes and electrons are swept away due to the electric field → current



Solar Cell

