

# LED

As electrons of LED cross the P/N junction, they combine with holes. This changes their status from one energy level to a LOWER energy level – extra energy THEY HAD as a FREE ELECTRON must be RELEASD!

SILICON DIODES give off this extra energy as HEAT.

GALLIUM ARSENIDE diodes release SOME of the ENERGY as HEAT and SOME as INFRARED LIGHT.

By doping GALLIUM ARSENIDE with various material, we can get the LED to output visible light - RED, GREEN, YELLOW.