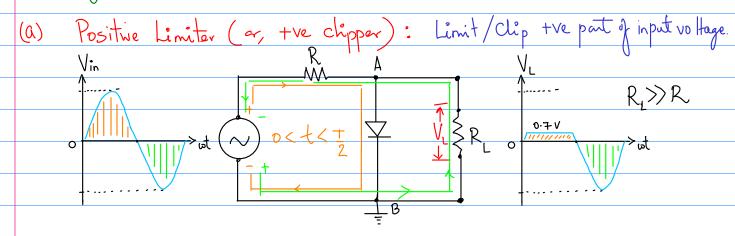
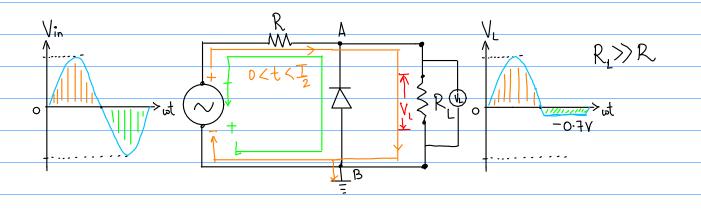
Application of p-n diodes: Limiters (Clippers) & Clampers

(1) Voltage Limiters (Clippors):

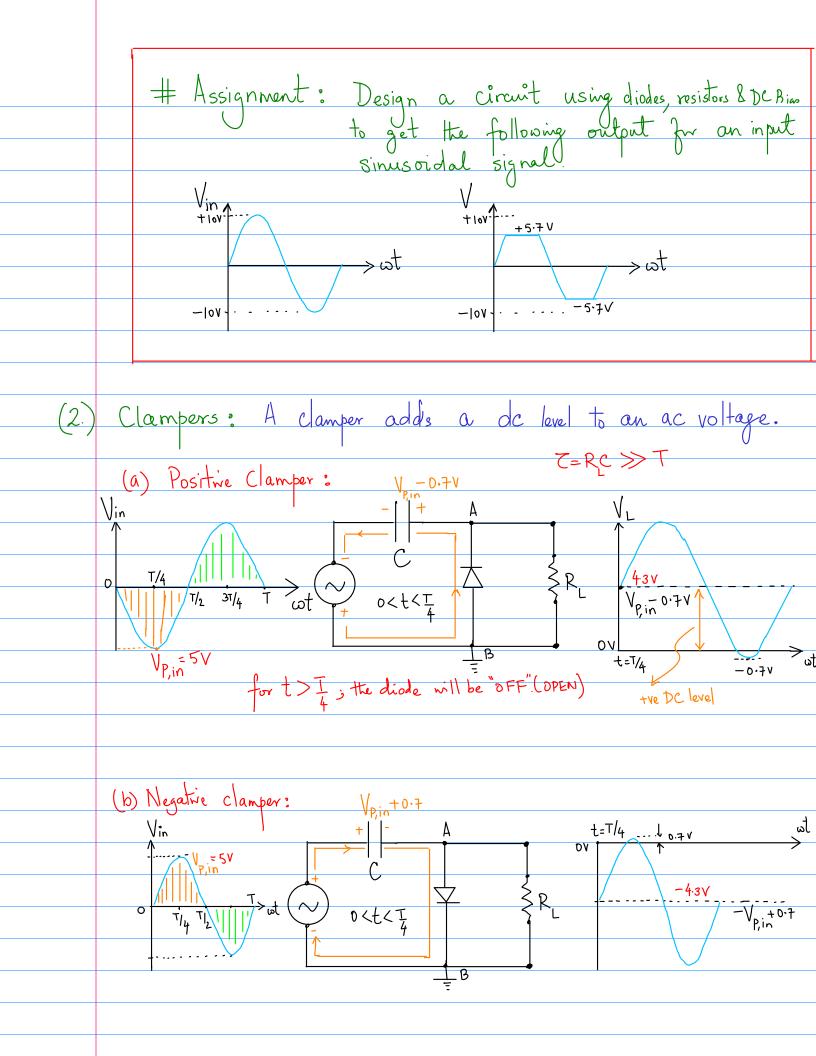


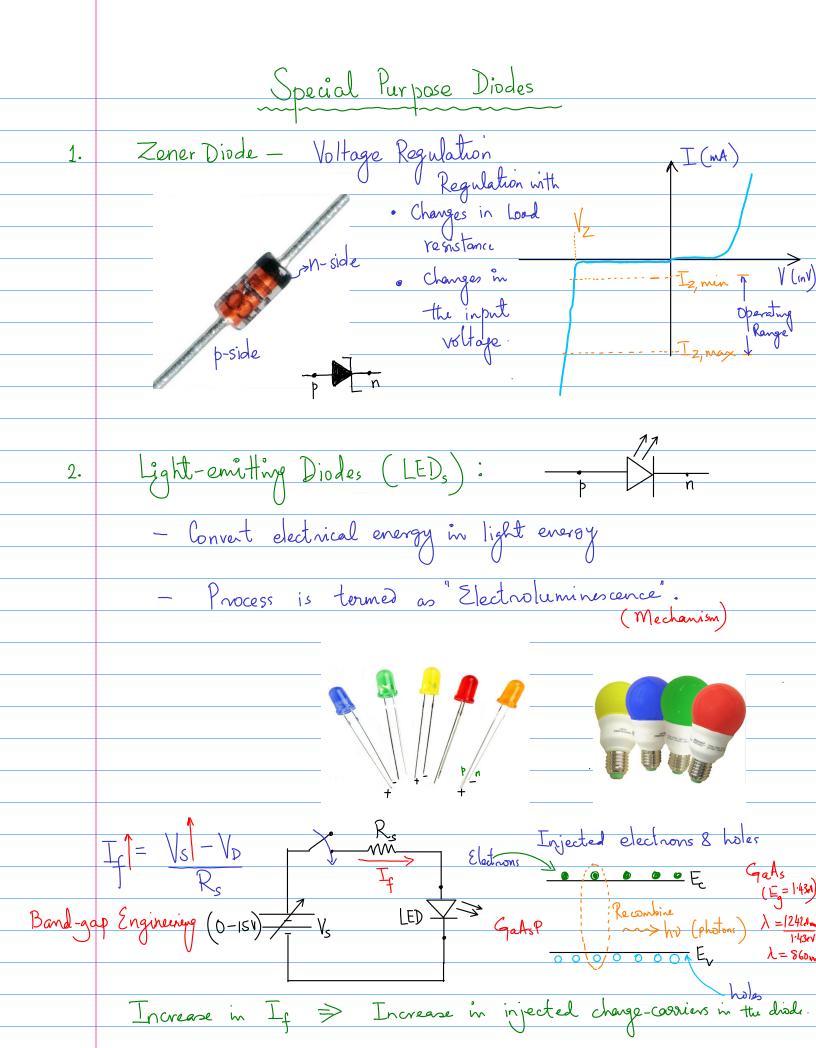
$$V_{L} = \frac{R_{L}}{R_{L} + R}$$
if $R_{L} \gg R$, then $V_{L} \approx V_{in}$

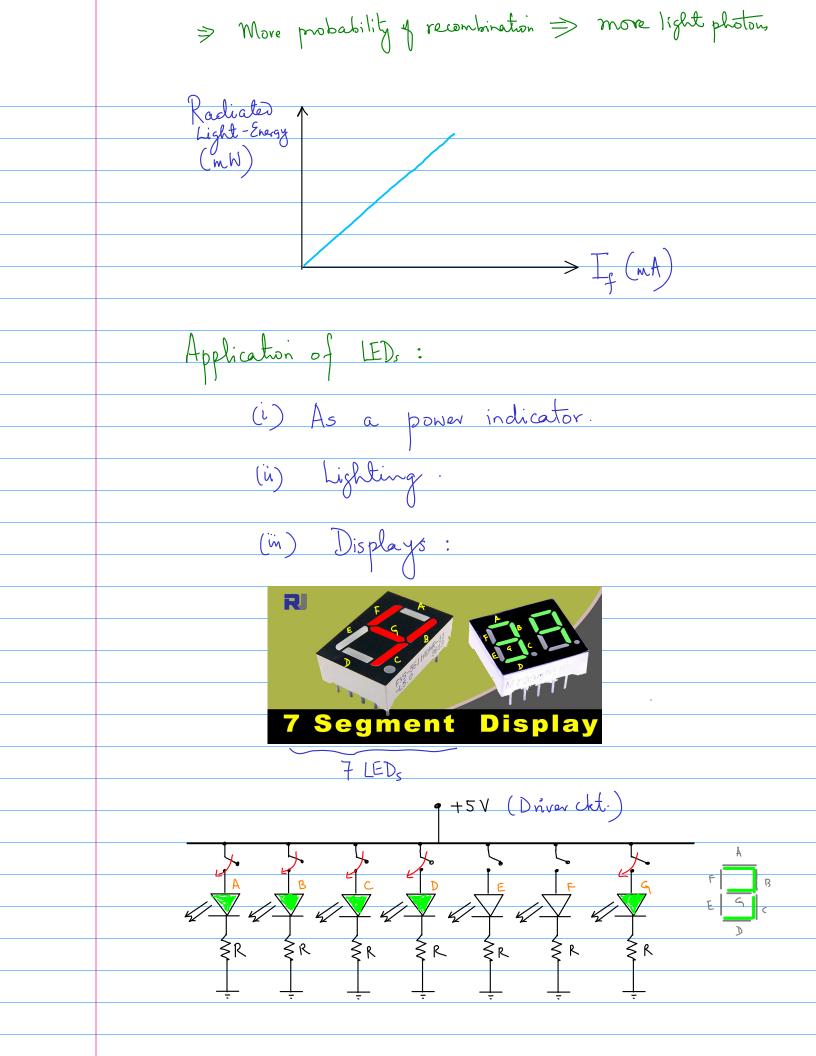
(b) Negative Limiter (a, -ve chipper): Limit/Clip -ve part of input voltage.

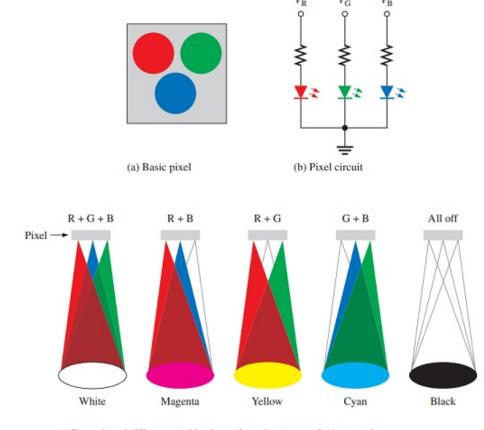


Remember: For a diole to Bias Limiters (Clippers): For diode to turn-ON, VCA R -W.







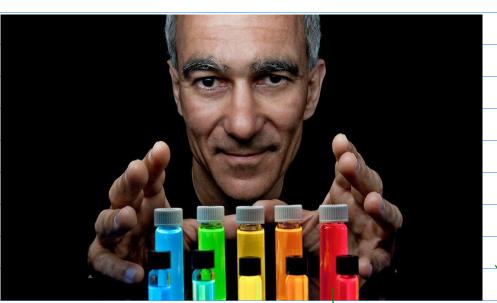


(c) Examples of different combinations of equal amounts of primary colors

▲ FIGURE 3-41

The concept of an RGB pixel used in LED display screens.

Prof. M. Bawendi, MIT.



(dSe QDs Tune the Bandge just by changing the size of the QD

Quantum Dots. (Artificial At.

Photo-diade: Light absorbing naterial: Generating cleatronhole pains if the generated electron-hole pairs are dissociated, then
"free" charge-carriers are released.

These charges constitute electric-current in
external cht. $\rightarrow \vee (i \wedge \vee)$ Ckt. application:

