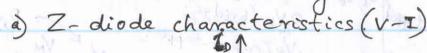
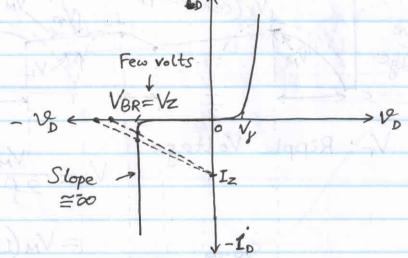


6. Zener diode as a V-regulator.





b) Z-diodes are highly doped -> Thinner junc" width -> Lower break-down V.
(RB)

$$R_i = \frac{V_{PS} - V_Z}{I_i} = \frac{V_{PS} - V_Z}{I_L + I_Z} I_Z = \frac{V_{PS} - V_Z}{R_i} - I_L$$

6666

0000

$$R_i = \frac{V_{PS \min} - V_{Z}}{I_{Z \min} + I_{L \max}} \simeq \frac{V_{PS \max} - V_{Z}}{I_{Z \max} + I_{L \min}}$$

