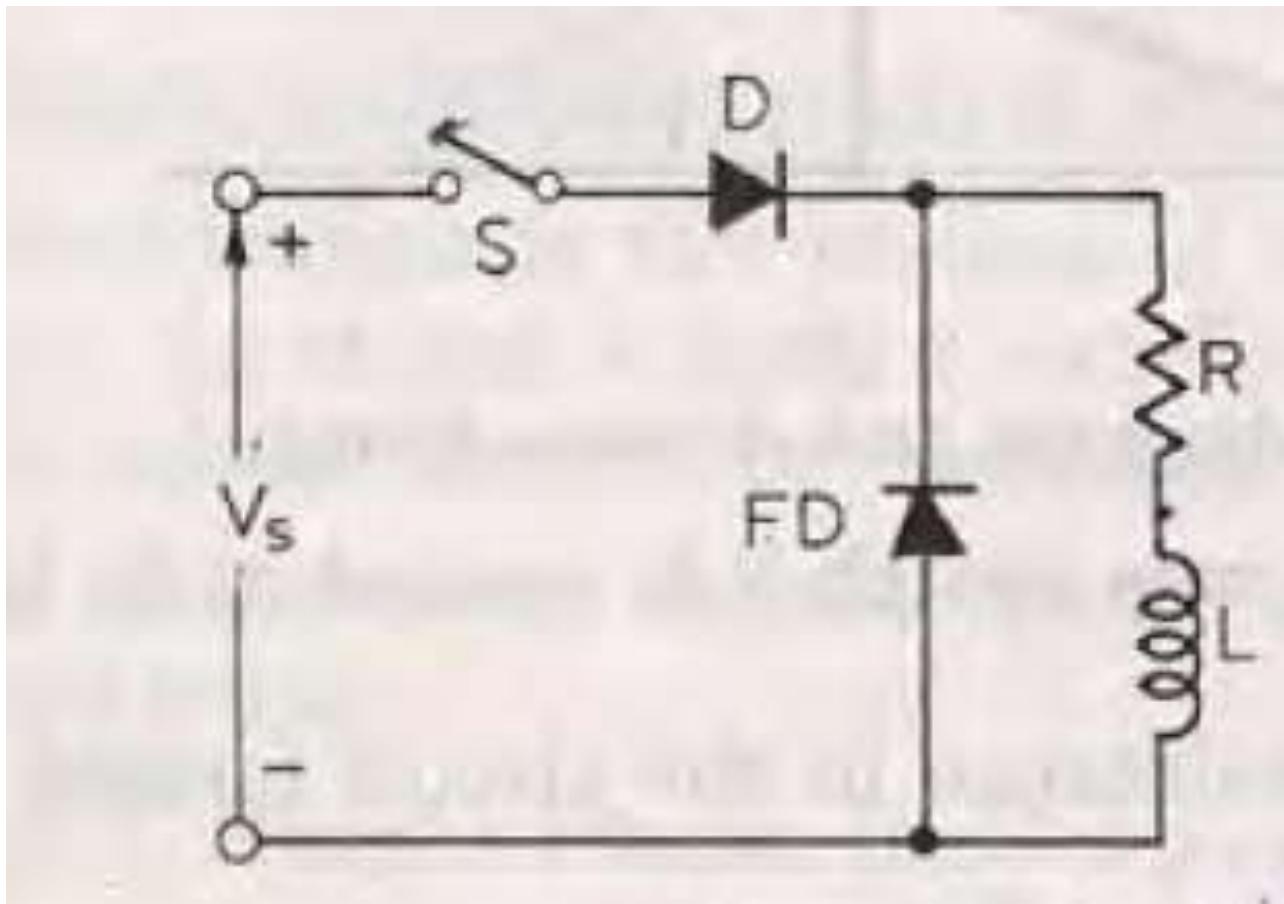
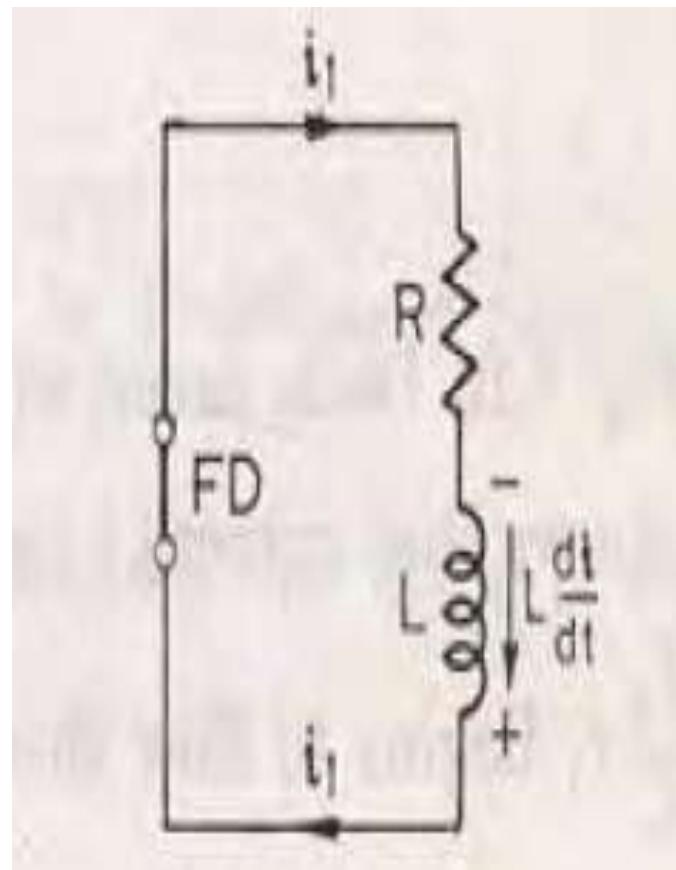
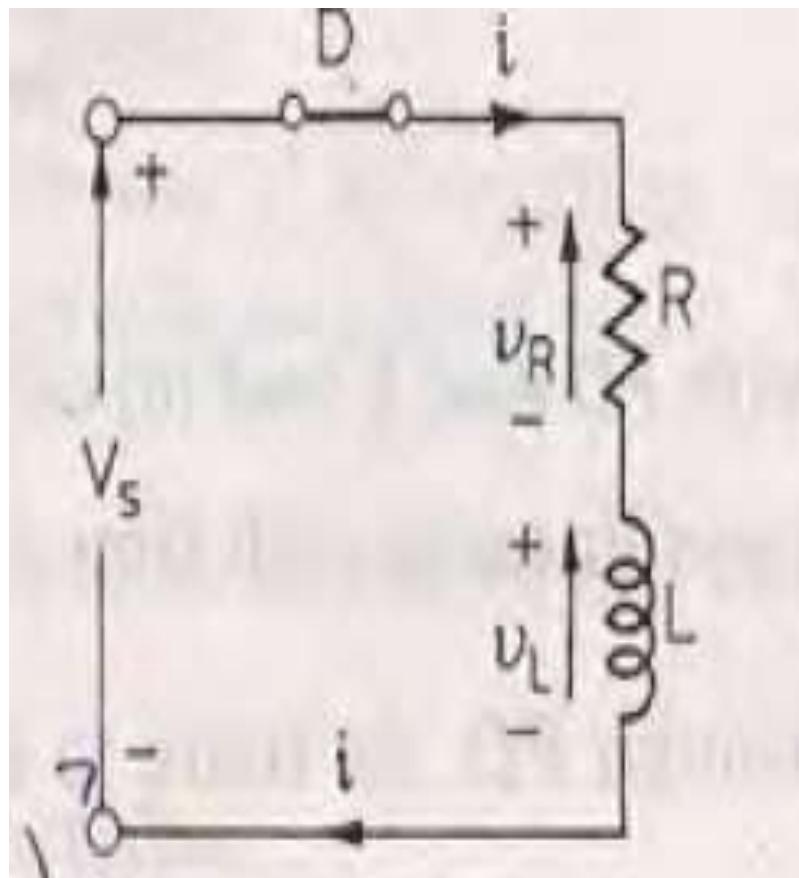


Free Wheeling Diode

Free Wheeling Diode



FWD



Explanation

Mode I

$$i = \frac{V_s}{R} (1 - e^{-\frac{R}{L}t})$$

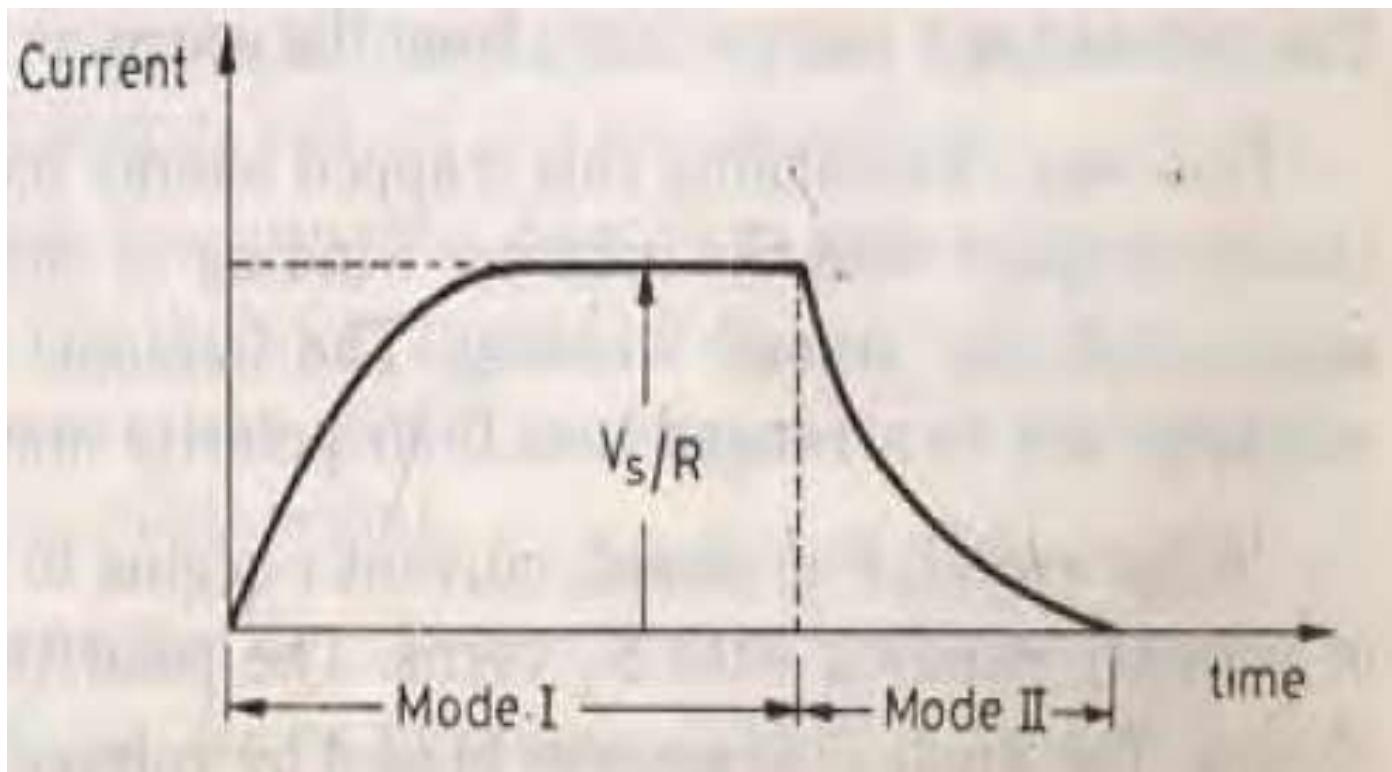
Final value of current,

$$I = \frac{V_s}{R}$$

Mode II

$$i_1 = \frac{V_s}{R} \cdot e^{-\frac{R}{L}t}$$

The Graph



Another Case

$$V_s = L \frac{di}{dt}$$

$$i = \frac{V_s}{L} t$$

