ECE 5/472 Power Electronics

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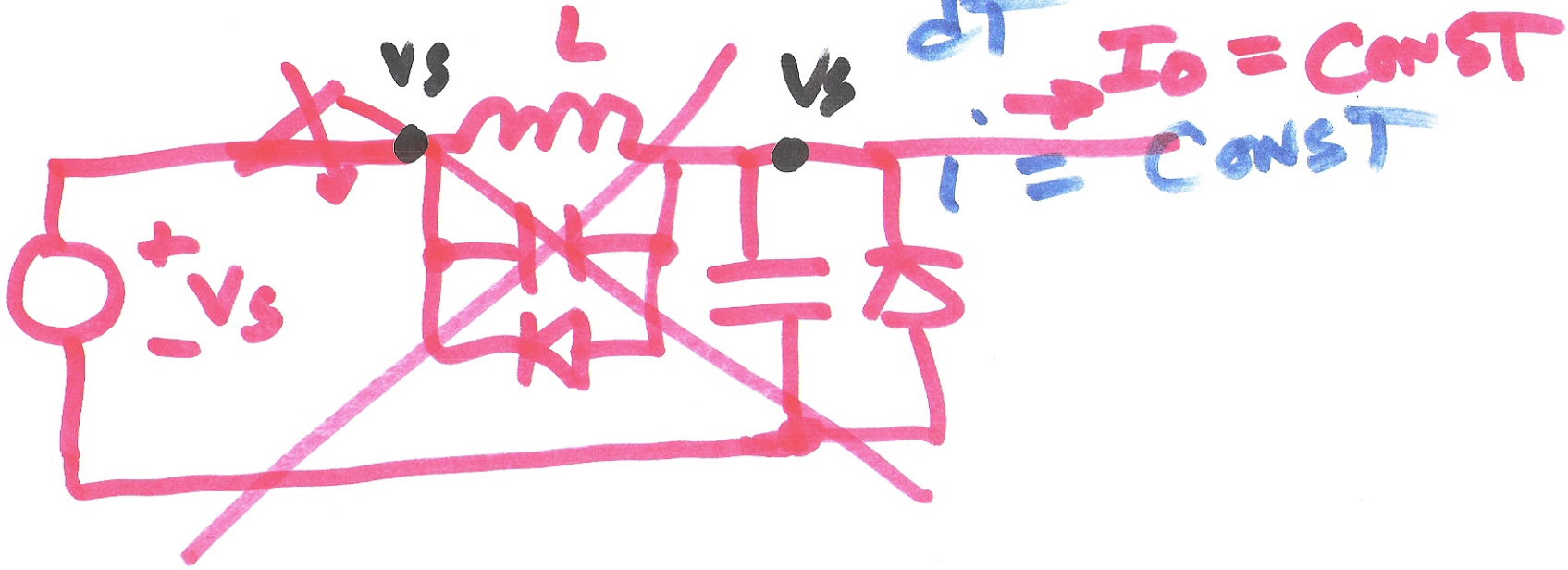
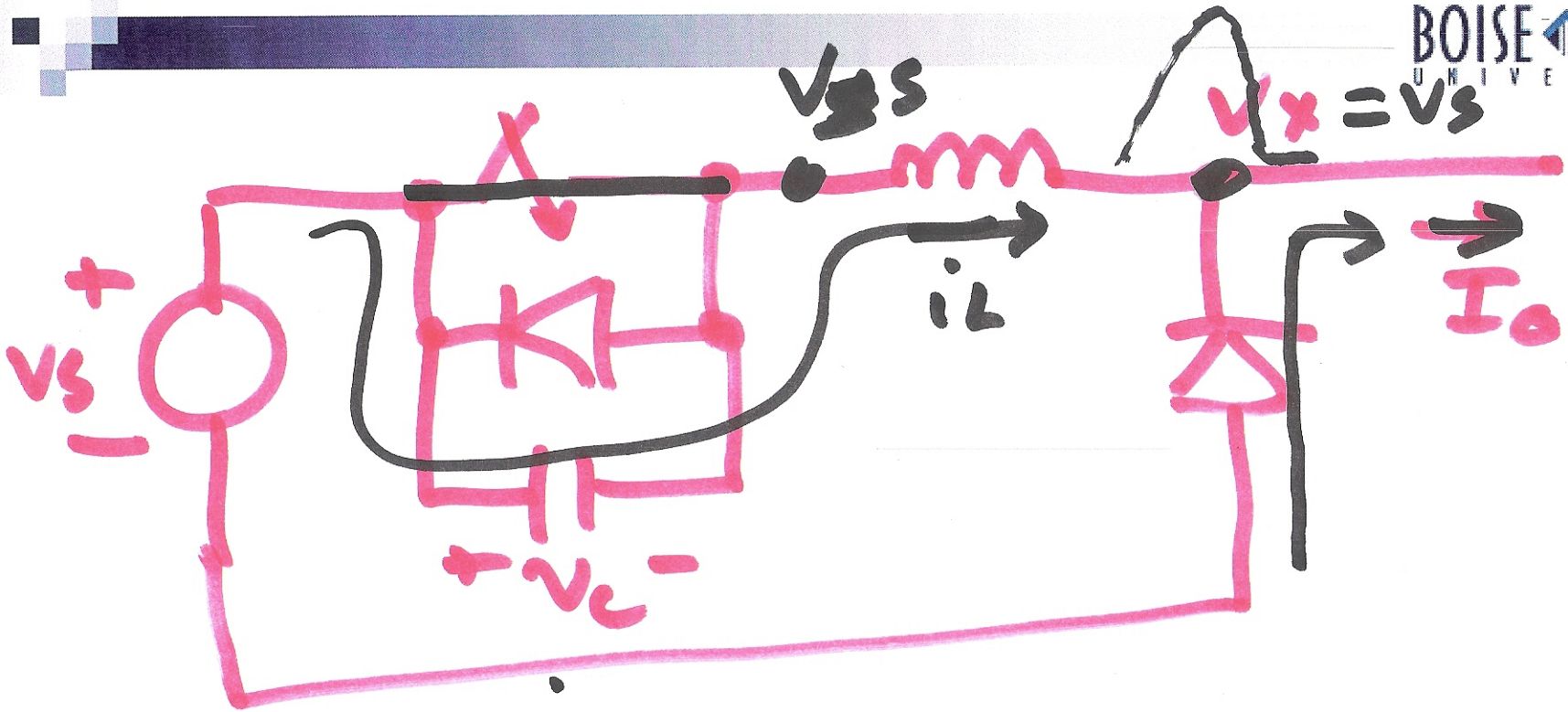
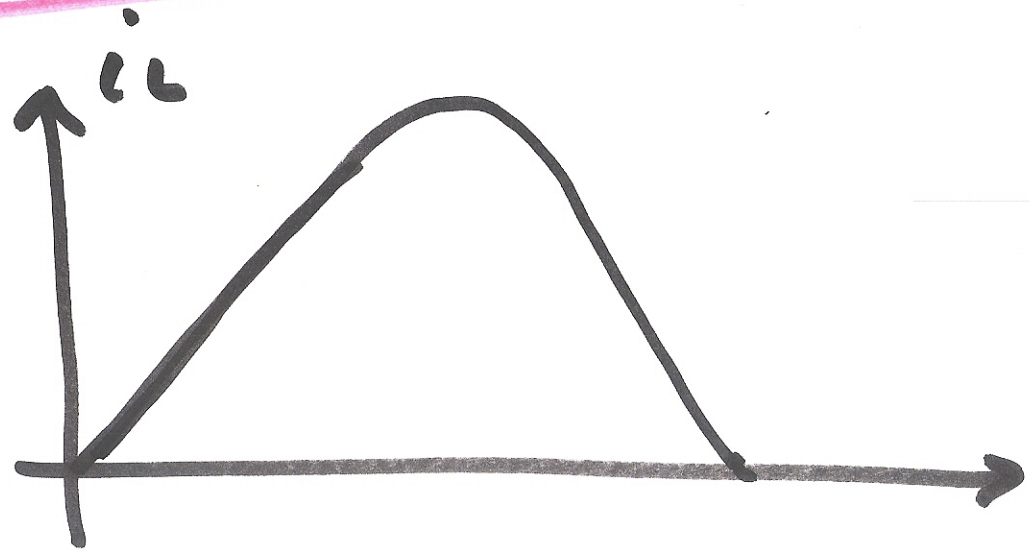
Lecture 29 Nov. 1, 2010

$$V = L \cdot \frac{di}{dT} = 0$$







2)

H. W. #15

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Buck conv.

$V_o = V_s D$ $\quad D = \frac{1}{2}$ wrong ☺

(6-14) $L_{min} = \frac{(1-D)R}{2f}$

$f = 100K$ $\quad R = 6$

$L_{min} = 150\mu H$ $\quad D = \frac{1}{2}$

$100\mu H$

6-20 $\quad 1\%$ $\quad 40\mu F \rightarrow 100\mu F$

3)