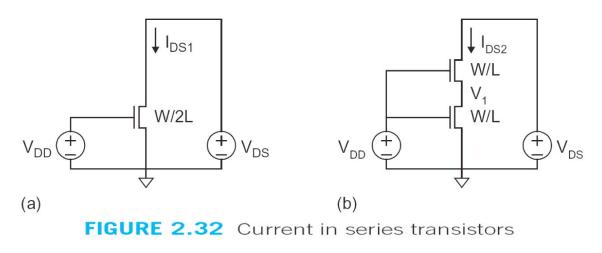


Problem #1

Consider the circuits in figure 2.32. If we assume the transistors are well described by the Schockley model and their respective S and B terminals are tied together, the two circuits are equivalent (i.e. $I_{DS1}=I_{DS2}$).



- 2. Explain.

Problem #2

- 1. As temperature rises, does the current through an ON transistor increases or decreases? Explain.
- 2. Does current through an OFF transistor increase or decrease? Explain.
- 3. Will a chip operate faster at higher temperature or low temperature? Explain.