

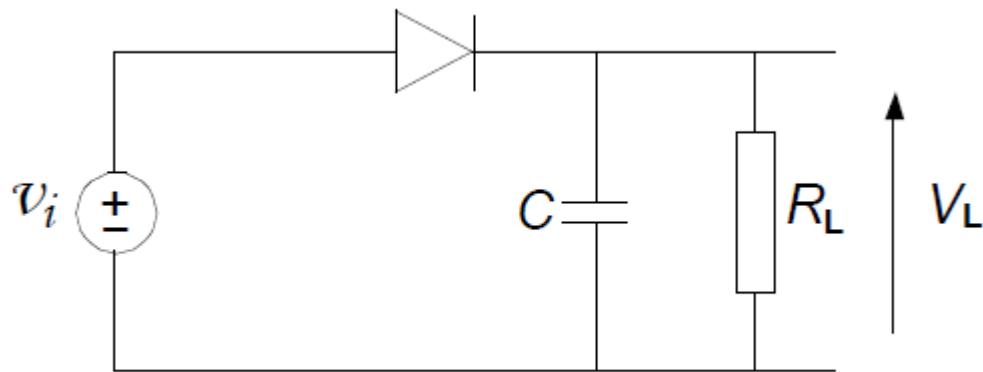
## Answer on Question #69484, Physics / Electric Circuits

a) Use superposition principle to find the current flowing through  $R_2$  in Fig.1.

**Answer:** no Fig.1

b) Explain with a neat diagram application of p-n junction diode as a peak voltage detector.

**Answer:**



The waveform resulted from the half-wave or full-wave rectifier can be converted to a nearly constant level by using a capacitor as a simple filter.

This circuit can be used to detect the peak value of the input signal.

As in the half-wave case, the output voltage will be almost equal to the peak value of the input signal.

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