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Consider a pn-junction of an ideal material (only recombination mechanism is radiative recombination). When you slightly forward bias this diode (say $V < \text{bandgap}/2$), will you see light emission? If so, why and how?

If you now consider this pn-junction configured as above, perhaps slightly forward biased, in close proximity to another pn junction that is operated as a solar cell. Now suppose I heat up the LED (first pn junction) using sunlight and use the light generated by this LED to power the solar cell. Is this a good idea for an energy conversion device from sunlight to electrical energy?