

Re: Canon PowerShot A710 IS backlight

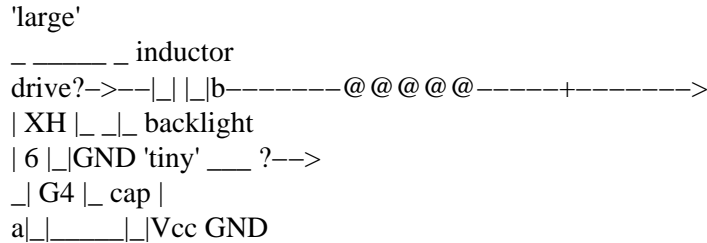
Source: <http://sci.tech--archive.net/Archive/sci.electronics.repair/2007-07/msg00800.html>

- *From:* Franc Zabkar <fzabkar@xxxxxxxxxxxxxxxxxxxxx>
- *Date:* Mon, 16 Jul 2007 17:36:35 +1000

On Mon, 16 Jul 2007 17:08:03 +1000, Franc Zabkar <fzabkar@xxxxxxxxxxxxxxxxxxxxx> put finger to keyboard and composed:

On 15 Jul 2007 23:07:24 GMT, u_1061771155@xxxxxxx (Remove _ for valid address) put finger to keyboard and composed:

The driver circuit is somewhat hard to trace. (Anyone know of a source for a schematic... ;-)) So far I've traced it back to a SOT23 sized 5-pin thing:



I think "a" connects to "b" under the chip.

Could "a" connect to the junction of the cap and inductor, in which case the chip may be a self contained, fixed voltage, PWM regulator with integrated MOSFET, flywheel diode, oscillator, and error amp. "A" may be the feedback pin for the error amp, ie this pin may sense the regulator's output voltage. The "drive" may be an on/off pin.

Do you measure a diode drop between GND and "b" (anode to GND)? If so, then this could be an internal flywheel diode.

– Franc Zabkar

I believe that the backlight could be a white LED type. This would make the chip a down-converter which is consistent with the placement of the inductor and an [internal] flywheel diode. Or maybe it's some kind of switchmode constant current source ???

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I haven't found any info on the A710, but FWIW the PowerShot A200/A100 both have LED backlights:

<http://www.canon.com/camera-museum/tech/report/200207/report.html>

– Franc Zabkar

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