

Re: Anotehr Basic Q. re: a circuit

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"Kris Krieger"

"Phil Allison"

Sorry for another stupid question, but, I'm looking at this http://www.maxim-ic.com/appnotes.cfm/an_pk/1750 and can't figure out whether I can ignore, or whether I need to add in some modification of something like this <http://www.instructables.com/id/S8Q5N9OFHTAIQK7/> where the first diagram says " PWM Dimming 0 to 3.3HZ f>15KHz 0%=shdn 100%=20mA "

A clue would be appreciated – especially since I don't know whetehr they mean dimming as in a Dimmer Switch on a lamp, or whether they mean something entirely different...

** The CTRL input operates to dim the LEDs with a 0 to 3.3 volts variable DC input, which can be created by filtering a PWM signal as shown or any other way you like – eg with a 3.3 volt supply and a pot.

In the Datasheet for the IC, in the chart describing the Pins, for CTRL, it says:
"Brightness/Shutdown dualmode control input. LED brightness and IC shutdown are controlled by the voltage on CTRL. VOLTage between 250mV and

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5.5V or $(V+ + 2V)$, whichever is less, adjust the brightness from dim to bright, respectively. To put the IC into shutdown, drive below 100mV or connect to GRND."

So, for a low-voltage light (2 or three 1.2V NiMH batteries, 1500mA to 2500mA), that means it's jsut personal choice rather than mandatory to add in the dimmer?, IOW, I can either add in a dimmer, or just connect the pin to the ground/out terminal?

** Why are YOU crapping on about adding a " dimmer " all the time ??

That IC has a built in dimming function which operates as stated.

..... Phil