Tiny 0,1-0,5 A / 33 V low-cost variable current LED driver https://www.indiegogo.com/projects/ledonino

Driver

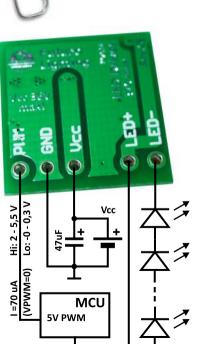
- self made LED fixtures
- easy to use
- low cost
- dimming options
- battery supply
- CV supply



LED Driver 376V

Build your own LED fixture charger and others





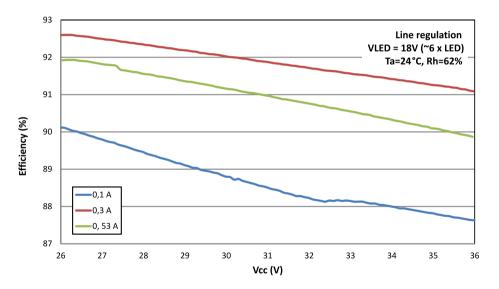
Rev.0.3

Specification: Topology: Buck Vcc = 8-32 V DC I LED = Adjustable see next page for settings Regulation / dimming:

- hysteretic controll
- typical 5% output accuracy
- high speed PWM dimming

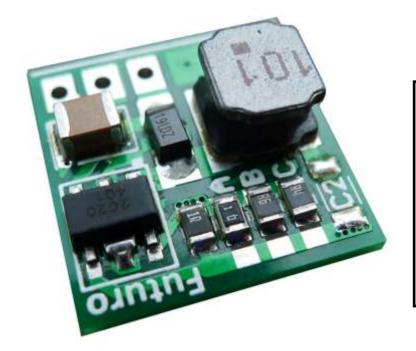
Switching freq: 1 MHz max Rsense ratio: 0,13 Ohm / 1 A

Dimensions: 16 x 16 x 5,5 mm Thermal shutdown protection Over current protection



Note: if PWM is not connected max ILED generated Stnadby mode, PWM < 0,3 V (Icc 70uA typical) Options: encapsulation, reverse protection

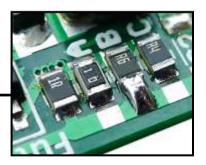




LED current selection from 0,1 A up to 0.53 A

ILED	Α	В	С
0,1 A	-	-	-
0,23 A	Χ	-	-
0,3 A	-	Х	-
0,39 A	-	-	Х
0,45 A	Х	Х	-
0,53 A	Х	-	Х
0,59 A	do not use !		
0,73 A	do not use !		

X - linked by soldering iron



Output current ripple reduction: adding capacitor across LED string (1 uF on module). Note: capacitor will not affect operating frequency and efficiency, but it will increase startup delay and reduce maximum dimming PWM frequency. Using ceramic capacitor may result in audio noise during PWM dimming depending on PWM frequency.



3-CH Digital dimmer for LED Driver 376





Ready made solution for your lighting needs

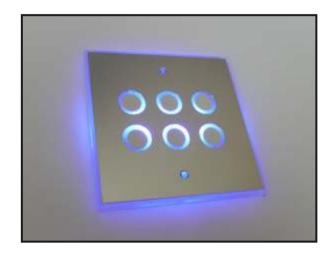
Specification:

Supply voltage 7-36 V DC Power consumption: 1,2 W max Model: Custom for LED Driver 376

Output: PWM 0 - 100%

Outut current: 10 mA / channel max

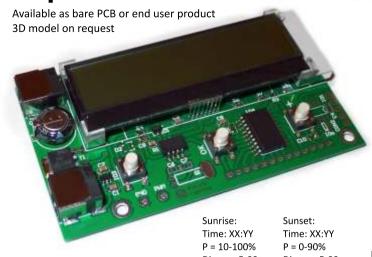
Number of dimm steps: 250 Illumination: Front - Side Blue LED End of range indication: blink (Blue) Power-up fade-in duration: 30 sec Setting memory type: EEPROM Dimensions: 85 x 85 x 30 mm





AquaTimer & LED Driver 376 Artificial sun for Aquarium life

Application example



Specification:

Supply Voltage: 6-25 VDC Supply current: <15 mA

Power consumption: 0,65 W max

Clock source: RTC 24h

Settings for sunset and sunrise:

Start time XX:YY Intensity 0-100%

Dimm time: 5-99 minutes

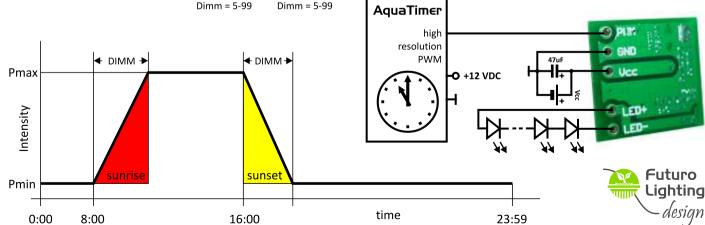
PWM frequency: 2000 Hz Resolution: 1000 steps Output: 5V / 10mA Output: CV, 4A max

Display: 2x16 lines Actual time, status, intensity, Menu Illuminated (white)

Dimensions: 87x50x10 mm

Others:

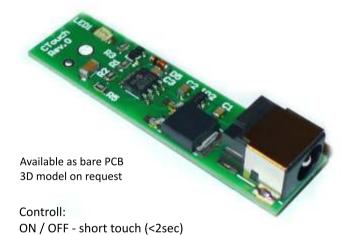
- Reverse protection
- >3 days clock backup



TouchDIMM & LED Driver 376

Just single push to adjust

Application example



Specification:

Supply Voltage: 6-25 VDC Supply current: <5 mA Output: PWM / CV 4A max PWM frequency: 2000 Hz Resolution: 1000 steps Output: 5V / 10mA

Dimm steps: 100

Dimming characteristic: Log

Dimensions: 50x13x10 mm

50x13x3.5 mm (wo DC con)

Others:

- Reverse protection
- implemented soft fade in and fade out
- illumination of touch button
- built in N-MOS for CV LED strips

0

Intensity increase

Touch and hold till reaching required intensity (initial status OFF)



Intensity decrease

Touch and hold till reaching required intensity (initial status ON)



Indicator status

Inactive when off or during fade in and out

