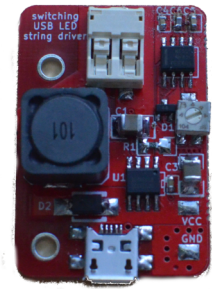


Switching USB led string driver

This product enables you to create custom decoration lights very easily. You can use this driver with a scrap power supply to power your LED string with an adjustable brightness. Power can be fed through a micro-USB connector or you can solder the power wires directly to the board. There is a terminal block for the LED wires – you just need to strip them and push them to the connector.



This product is intended to be used with a 3-18V supply (a USB charger would be fine) with any colour LED strips. The output current should not exceed 1 ampere.

How does it work?

SCT2932 is a constant current switch-mode power supply chip which does all the hard work for us. R1 sets the output current. There is also an open-collector PWM circuit built around 555 timer which allows us to change the brightness.

What do I need besides this kit?

You will need a power supply and a LED string. The power supply does not have to be regulated.

Besides that you will also need a LED string or a power LED. One good way of sourcing those is to buy a battery powered "fairy light" or "wedding light" from eBay and hack off the battery box.



3M AA Battery Power Operated Warm White 30 LED String Fairy Party Wedding Light

Item condition: **New**

Quantity: More than 10 available / **229 sold**

Price: **US \$2.99**
Approximately EUR 2.66

Buy It Now

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229 Sold	Free Shipping	More than 56% Sold
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Shipping: **FREE** Standard Int'l Shipping | [See details](#)
International items may be subject to customs processing and additional charges. ⓘ
Item location: **ShenZhen, China**
Ships to: **Worldwide** | [See exclusions](#)

Delivery: **Estimated between Fri, Sep. 11 and Fri, Oct. 9**
Seller ships within 2 days after [receiving cleared payment](#). ⓘ

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Processed by PayPal

Returns: 30 days money back, buyer pays return shipping | [See details](#)

Seller information: **happyeasybuy02** (22450) ⭐
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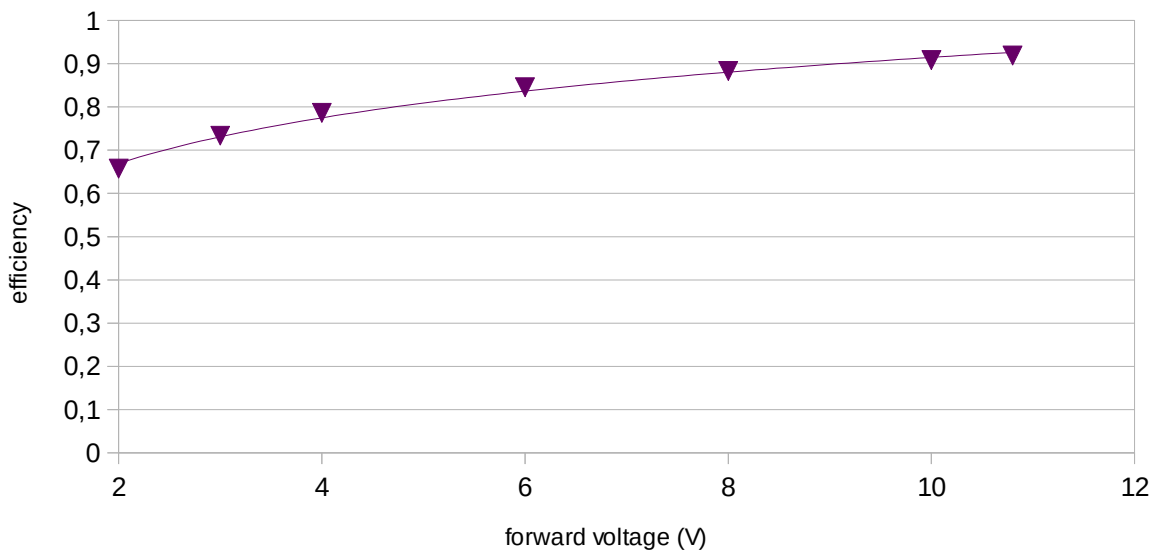
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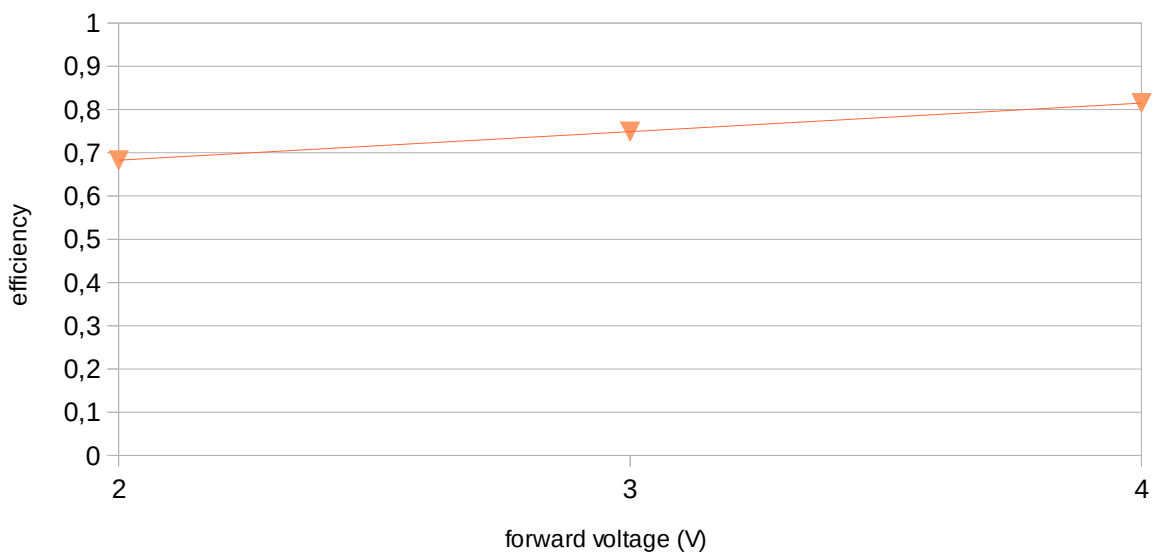
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Characteristics

Efficiency @ 1A, input voltage = 12 V

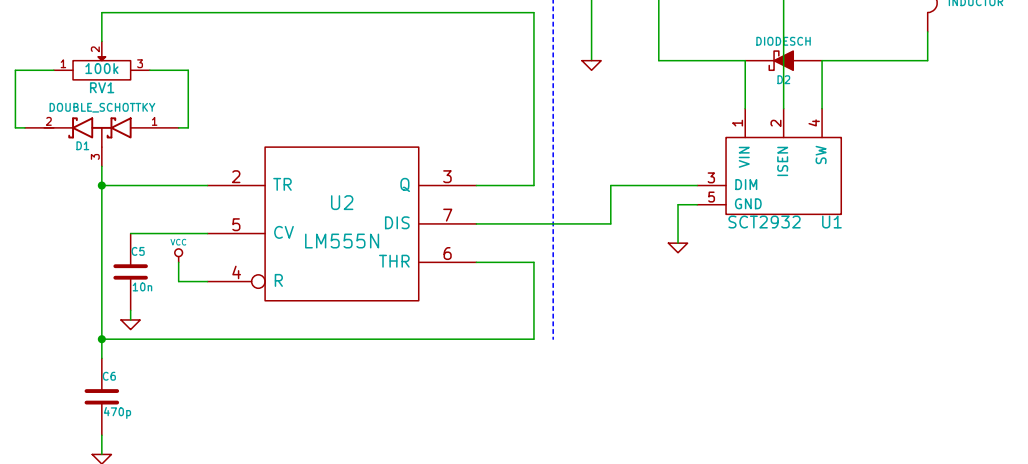
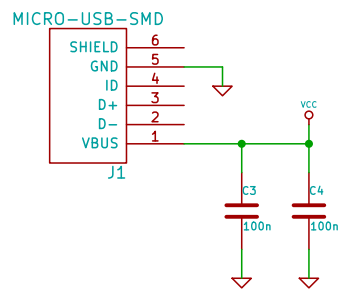


Efficiency @ 1A, input voltage = 5 V



PWM circuit

switch-mode supply



Jussi Kilpeläinen	
File: batt_led_drv_smps.sch	
Sheet: /	
Title: Switching LED string driver	
Size: A4	Date: 26 aug 2015
KiCad E.D.A.	Rev: 1
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