

# Power LED Strobe

<http://picprojects.org.uk>



Off-board strobe LED

If using off-board strobe LED  
do not fit LED1 on-board

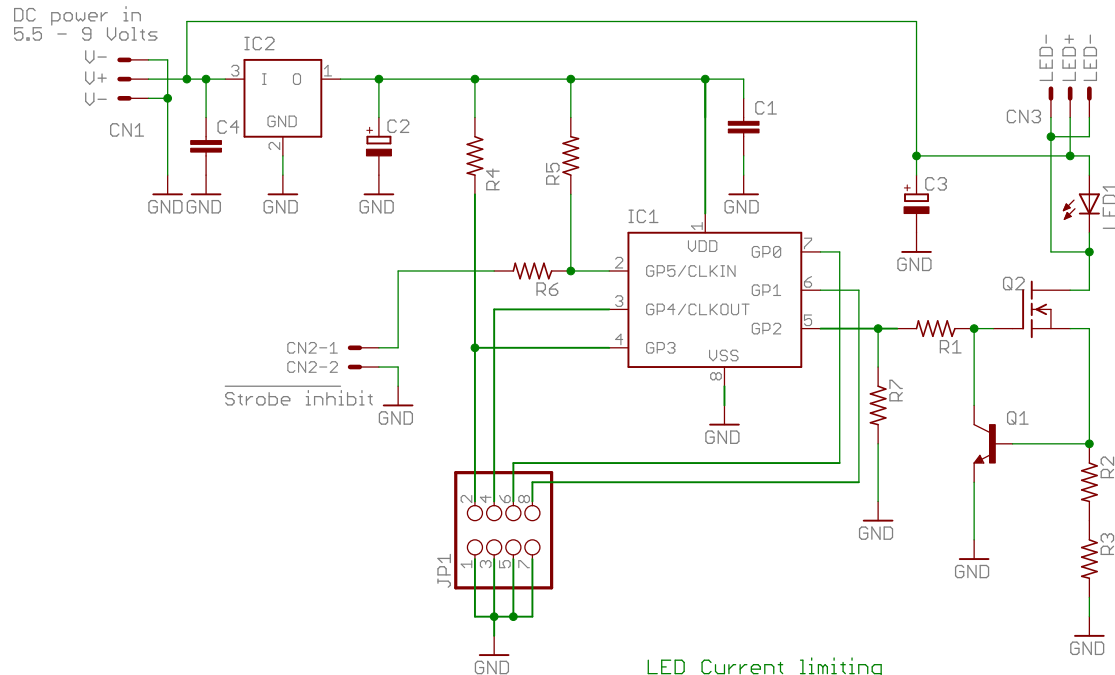
## Components

R1	1K	0.25W, 5%, carbon film
R2,R3	1R	0.6W, 1%, metal film
R4,R5	10K	0.25W, 5%, carbon film
R6	120R	0.25W, 5%, carbon film
R7	47K	0.25W, 5%, carbon film
C1,C4	100nF disc or multilayer ceramic	
C2	47uF / 6.3V radial electrolytic	
C3	220uF / 16V radial electrolytic	
LED1	Strobe LED (see text)	
Q1	BC548B	
Q2	STP20NF06L Logic level MOSFET	
IC2	LM2931-5.0 5 volt LDO regulator	

JP1	2x4, 2.54mm pin header	
CN1/3	3-way 2.54mm connector plug	
CN2	2-way 2.54mm connector plug	
IC1	Microchip PIC 12F629 / 12F675 / 12F683 program with HEX code (see text)	

Rev A

<a href="http://picprojects.org">http://picprojects.org</a>	
powerstrobe	
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LED Current limiting

For 700mA R2 = 1 ohm, R3 = wire-link

For 350mA R2 = 1 ohm, R3 = 1 ohm

## JP1 Jumper Settings

Strobe flash mode		Strobe pulse width		Strobe repeat rate		
1-2	Mode	3-4	Width	7-8	5-6	Rate
closed	double	closed	30mS	closed	closed	1S
open	single	open	100mS	closed	open	2S
				open	closed	3S
				open	open	4S