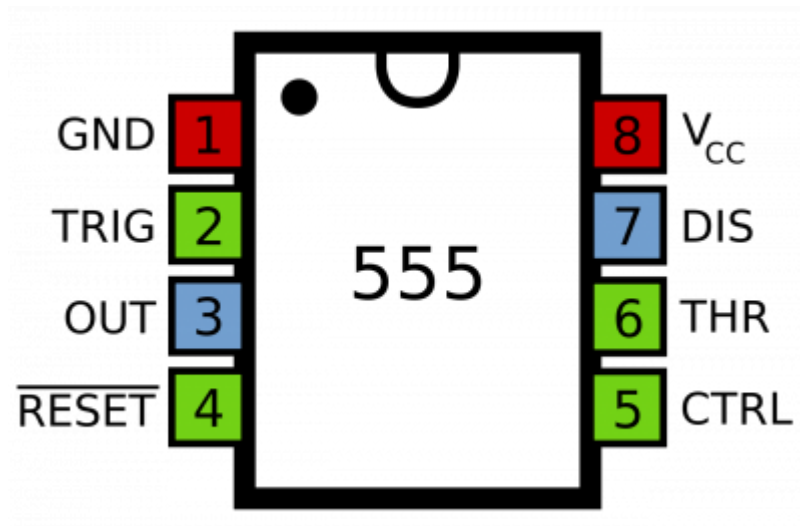


NE 555

- Vcc 5-15V
- Output can sink or source at 200mA (direct relay control is possible)

Output is not full rail-to-rail. To improve output sinking it is possible to connect pin 7 with 3 in some specific applications.



Monostable mode

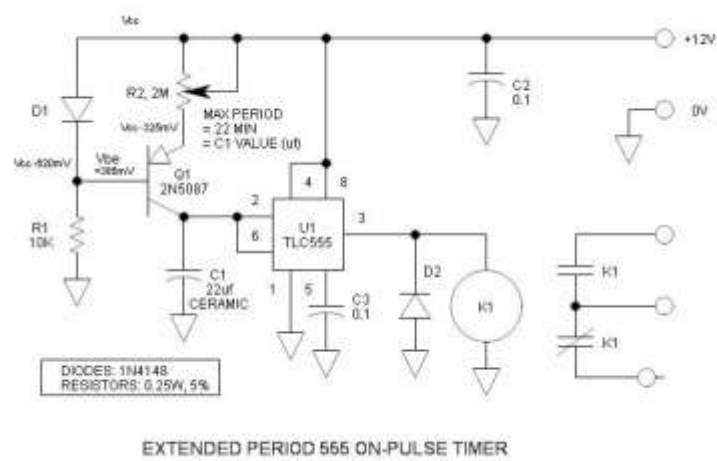
$$T = 1.1 * R * C$$

[555 Monostable Circuit Calculator](#)

NOTE: There is no sense to use classic circuit for long delays (i.e. over 10 minutes). There is problem with capacitor current leaking, etc. Also NE555 trigger input get some current (recommended is CMOS version). Maximum usable capacitor for 12V is about 2200uF.

Long delays

[Extended Period 555 On-Pulse Timer](#)



Results with 1N4148 silicon diode and BC557B PNP transistor (hFE measured: 260), Vcc=12.1V:

Vcc	C	R	time
12.1	100uF	100k	16 min
12.1	100uF	670k	37 min
12.1	220uF	10k	23 min
12.1	220uF	250k	92 min
12.1	470uF	100k	55 min
8	220uF	10k	

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