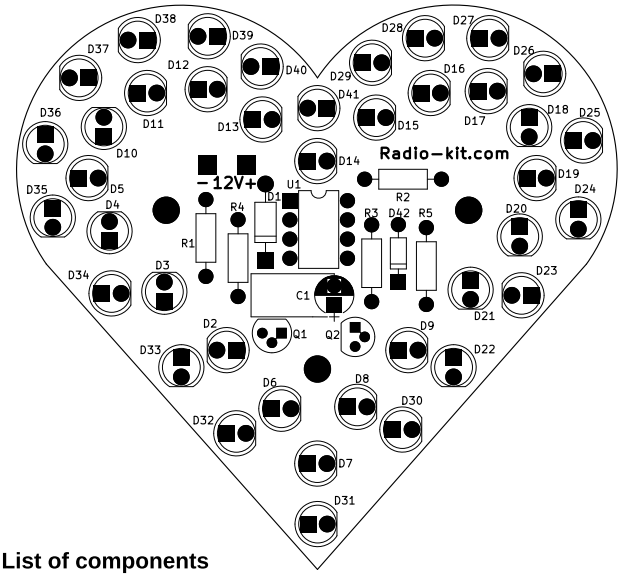
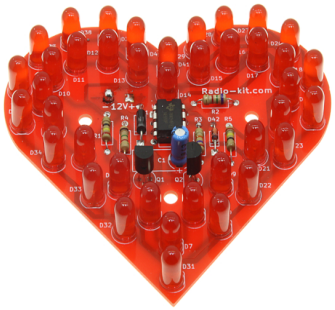
Schematic of the location of components



K204.1 EN "Pulsing Heart" Light effect DIY KIT

The kit includes:
EN -printed circuit board; components according to the list, instruction.
Store under normal climatic conditions
Shelf life Unlimited

The light effect consists of two hearts made of 40 red LEDs that turn on alternately. The effect is dynamic, bright and very attractive. The device demonstrates the heartbeat of the human heart.



List of components

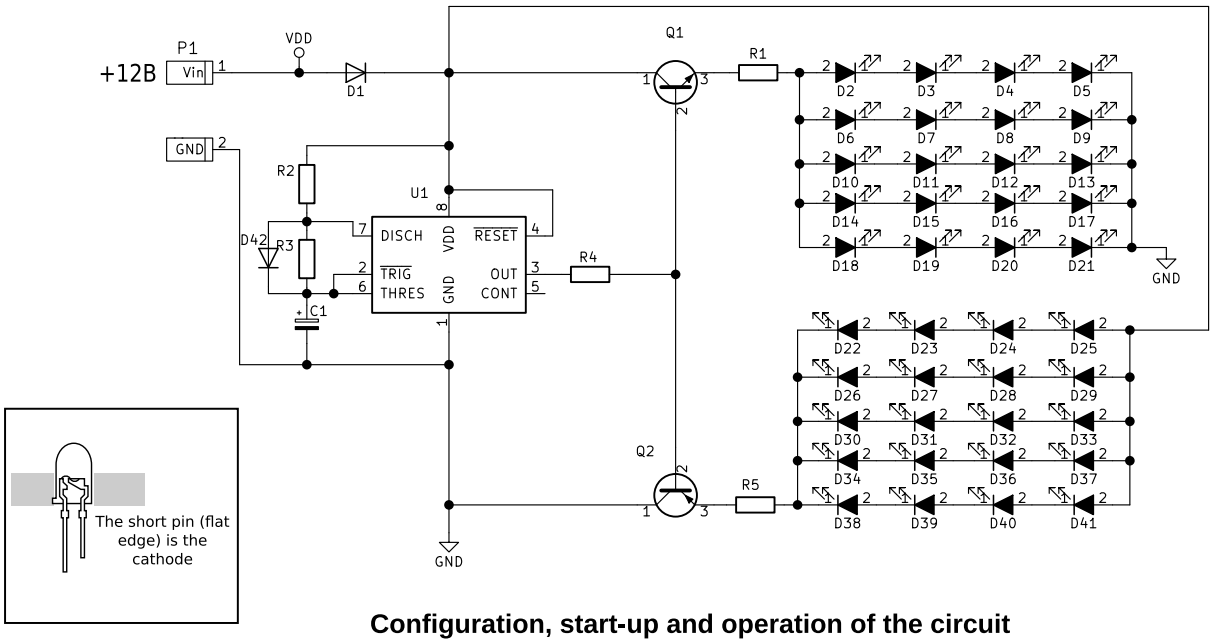
R1,R5	18-24 Ом	D42	1N4148
R2	6.8-10 кОм	Q1	BC547
R3	20-27 кОм	Q2	BC557
R4	1-3 кОм	U1	NE555
C1	22мкФ 25В	PCB204.1	PCB
D1	1N4007		
D2-D41	5mm red LEDs		

** All resistors are 0.25W*

Specifications:

Supply voltage, V.....9-12
Current consumption.....no more than 100 mA
Overall dimensions of the board, mm.....80x76

Electric scheme



Configuration, start-up and operation of the circuit

A correctly assembled scheme starts working from the first power-on and debugging is not required. The scheme has protection against incorrect connection of power supply + and -. The minimum operating voltage at which the correct and pleasant operation of the device is guaranteed is 9 Volts! Therefore, it is not recommended to connect the scheme to the E-block 6F22 9V battery, because 40 LEDs will exhaust it very quickly. It is also important not to confuse transistors Q1, Q2, as they have different conductivities. By selecting R2, R3, C1, you can change the "pulse" and "pause" frequency.