
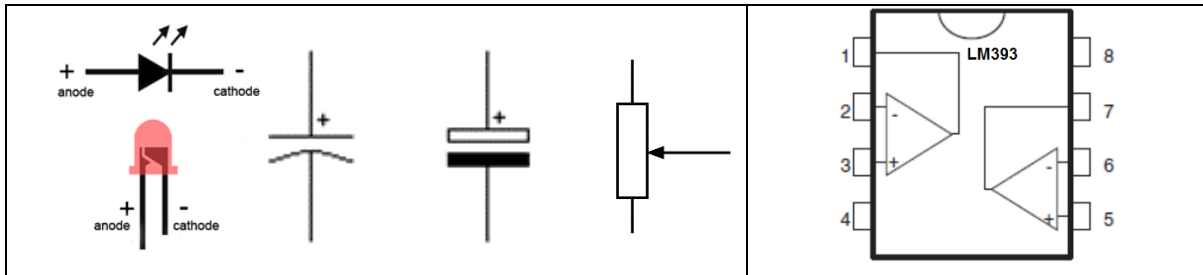
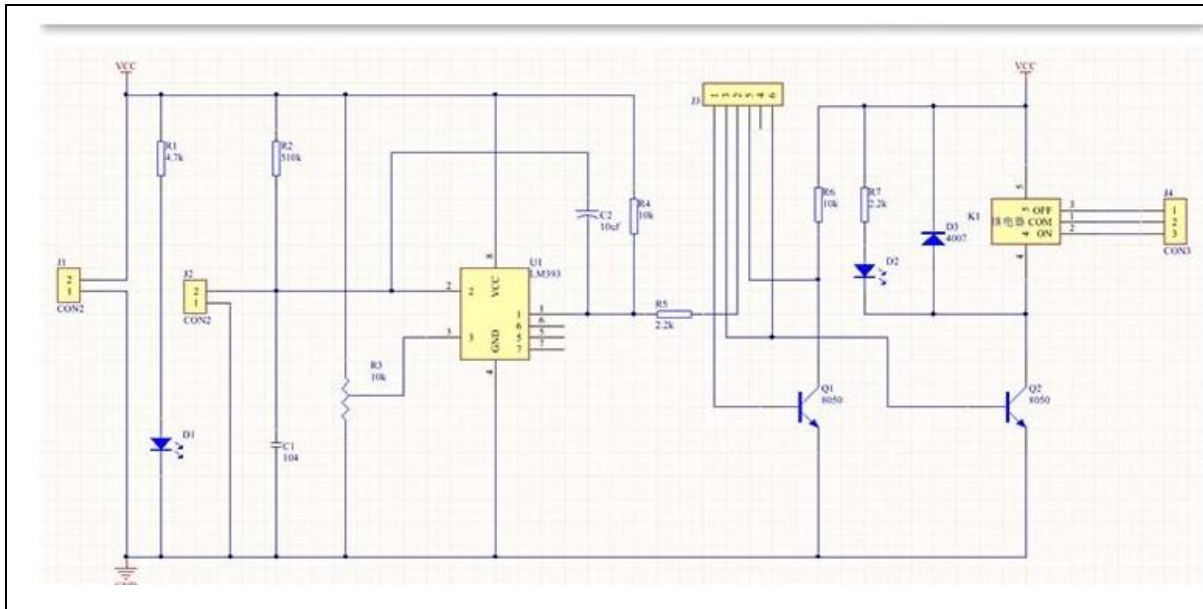


**STS-102 LIGHT ON RELAY DIY KIT**

<p><b>Working voltage: 5V DC voltage</b></p>  <p><b>PCB Full Assembly</b> (Board size: 75*30mm)</p>	<p><b>Component List</b></p> <p>R1= 4.7kΩ, R2= 510kΩ, R3= 10kΩ potentiometer, R4&amp;R6=10kΩ, R5&amp;R7=2.2kΩ, C1=104 ceramic capacitor, C2= electrolytic capacitor 22uF, D1= Red LED, D2= Green LED, D3= D1N4007, Q1&amp;Q2= IC 8050, U1= LM393, 8P IC Socket, J1= jumper connector, J2= LDR, J3= Switch, K1= 5V DC Relay, J4= 3P Terminal Block &amp; PCB Board</p> <p><b>Total Item = 22</b></p>
--	---



**Schematic Diagram**



**Component List:**

Components	Quantity	Reference
4.7 kΩ Resistor	1	R1
510 kΩ Resistor	1	R2
10 kΩ Resistor	2	R4&R6
2.2 kΩ Resistor	2	R5&R7
10kΩ Potentiometer	1	R3
104 Ceramic capacitor	1	C1
22uF Electrolytic capacitor	1	C2
Red LED	1	D1
Green LED	1	D2
Diode 1N4007	1	D3
IC 8050	2	Q1&Q2
LM393 & 8P IC Socket	1	U1
Jumper wire connector	2	J1
LDR	1	J2
Switch	1	J3
5V DC Relay	1	K1
3P Terminal Block	1	J4

**Introduction:**

This module can be used for light detection and it is adjustable by potentiometer. When the potentiometer is adjusted to high resistance, it means the intensity of light is low and the LED will turn on automatically in the night. And when the potentiometer is adjusted to low resistance, it means that the intensity of light is high and the LED will turn off at daytime.

**Connection Setup 1:**

J1 is connected to the power supply. When the potentiometer is adjusted to the certain value of high resistance, one of the LED will light on and the other will light off. When the potentiometer is adjusted to the certain value of low resistance, one of the LED will light on and the other will light off.

