**Breadboard Design:**

Basic requirements:

* 1.5A output current
* 12V output voltage
* 2.4V transition on
* 0.5V transition off
* Current draw no more than 1mA on input stage
* Circuit operates at 12V
* Voltage across load is at least 11.5V at 1.5A
* Switching speed ON-OFF/OFF-ON less than 1us

Possible Transistors that reach the above requirements:

2N2222 – not enough current can go through