TLP281 Optocoupler Isolation Module

1. Function: Use the low level to control the high level.

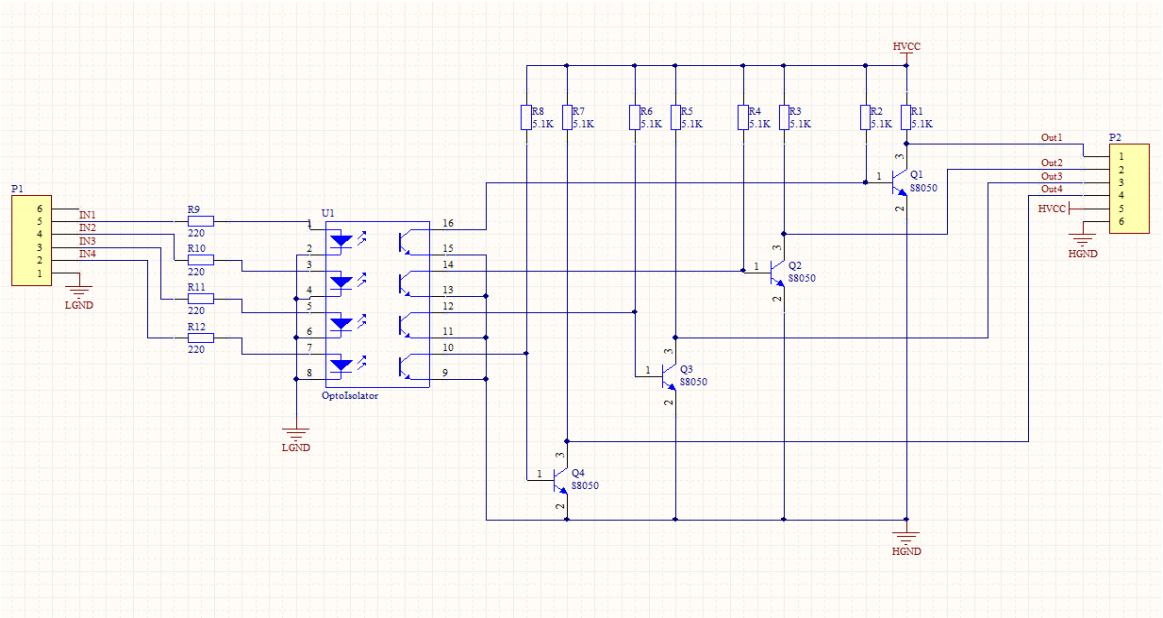
   For example, use the 3V or 5V voltage of microcontroller to control 9V or 12V voltage. 2.

2. HVCC should not exceed 24V max.

   Output port OUT1/OUT2/OUT3/OUT4 maximum output current equal to HVCC/5.1K, maximum absorption current 500ma.

3. PCB size: 25mmx26mm

4. Schematic



Input and output description.

INPUTS.

IN1/IN2/IN3/IN4, connected to the IO port of MCU or Arduino, GND is connected to GND of MCU or Arduino development board. IN1/IN2/IN3/IN4 control OUT1/OUT2/OUT3/OUT4 respectively.

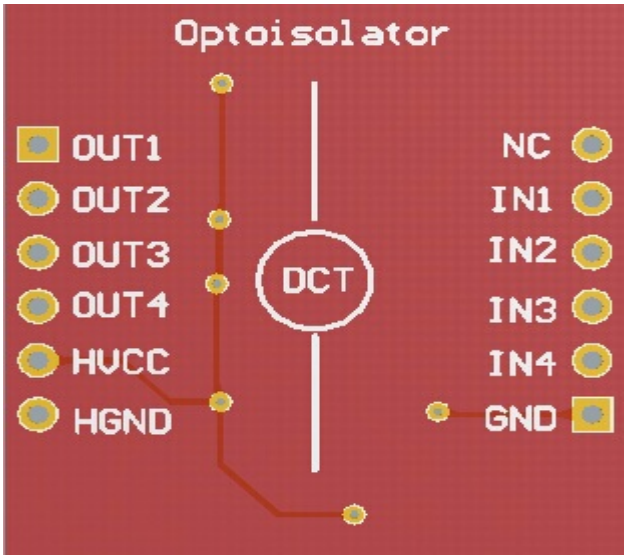
OUTPUTS.

OUT1/OUT2/OUT3/OUT4

Output: HVCC: connected to the positive side of the controlled high voltage, HGND connected to the negative side of the controlled high voltage

Use:

When IN1 is high, the voltage of corresponding OUT1 is equal to HVCC, when IN1 is low, the voltage of OUT1 is equal to HGND.



Usage Example:

The following example illustrates how to use the IO port of the microcontroller to control the switch of a 24V relay.

The working voltage of the relay in the figure is 24V, the red "+" indicates the positive power supply of the relay, and the black "-" indicates the negative power supply of the relay.

When the IO_0 port of the microcontroller outputs high level, the relay is OFF, and when the IO_0 port outputs low level, the relay is ON.