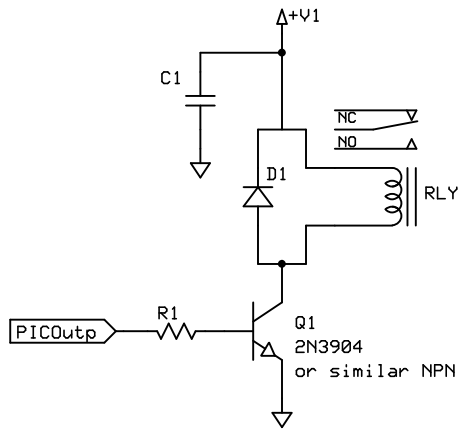


One simple circuit for driving a relay with TinyIR2 output: (Many others are possible)



R1 should turn on transistor hard enough to keep "on" state power dissipation low.

Something like 1K (~4.4 mA base current) or 2.2K ohms (~2.0 mA base current) should be OK here.

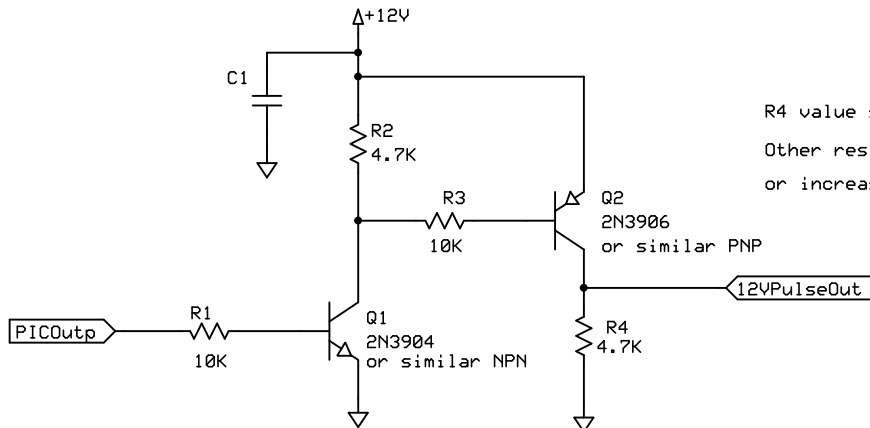
D1 snubs inductive voltage spike at Q1 collector when relay is turned off. I usually use 1N4002 or similar.

C1 helps reduce supply glitch when relay is energized. Could use 0.1 - 10 uF cap here, or maybe both.

+V1 can be 5V or 12V as needed by the relay coil, or some other value.

Q1 can be any NPN transistor that can handle the relay current and +V1 voltage. You can use 2N4401, 2N5210, etc.

Level translator: 5V PIC Output pulse generates 12V output pulse.



R4 value should be adjusted depending on what the circuit is driving.

Other resistor values may be adjusted as well, to reduce power consumption, or increase operating speed.

All resistors can be 1/4W or 1/2W

TaunTek		
Relay driver, Level shifter		
R. Grieb	Rev 1.0	Page 1 of 1
	9/2/2008	