

TTL Driven High Side switch Default On

(c) Joseph Ellsworth Jan 2010 Free Use for All No Warranties

Q-Channel Mosfet driven by CPU through Photo coupler

Designed for hooking solar charger to battery.

Where default is for connection to be on to start charging from a dead battery where CPU can turn

disconnect charging when the battery is fully charged
Allows charging to start before voltage is sufficient
run the CPU.

CPU uses this circuit to disconnect battery from charging source such as solar panel when battery is fully charged. It can also use PWM to limit charge rate.

Where Battery is shown a Motor could be used

R1 - biases gate to ground which turns on mosfet to allow charging. Remains in this state by default CPU activates vol1 through R2. Which Raises Gate of Q1 to VCC which turns Q1 off and disconnects motor. When CPU deactivates the line then gate of Q1 drains to ground through R1 which turns Q1 on and connects the motor.

