

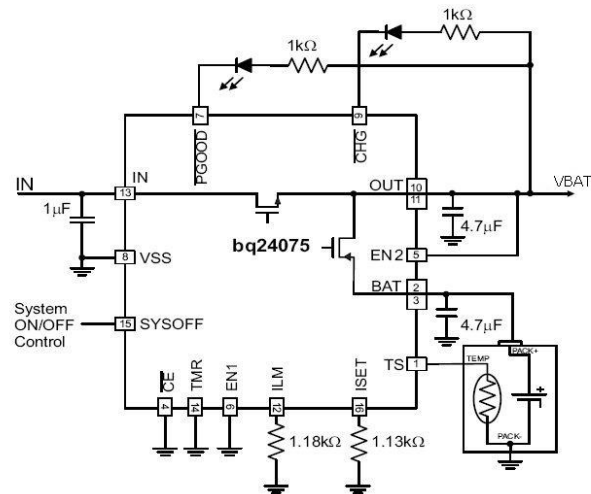


Figure 3: Battery Charge Supply

2.1.3 PWRKEY ON/OFF design

The simplest way to turn on/off SIM900 is driving the PWRKEY to a low level for 1S then release. PWRKEY pin has been pulled up to 3V inside the module. Following figure is the recommended connection with a NPN transistor. You can choose a GPIO of your MCU to control the POWER ON/OFF. Please note that don't add a capacitor on PWRKEY pin, or it may cause some unexpected problems when power on/off process.

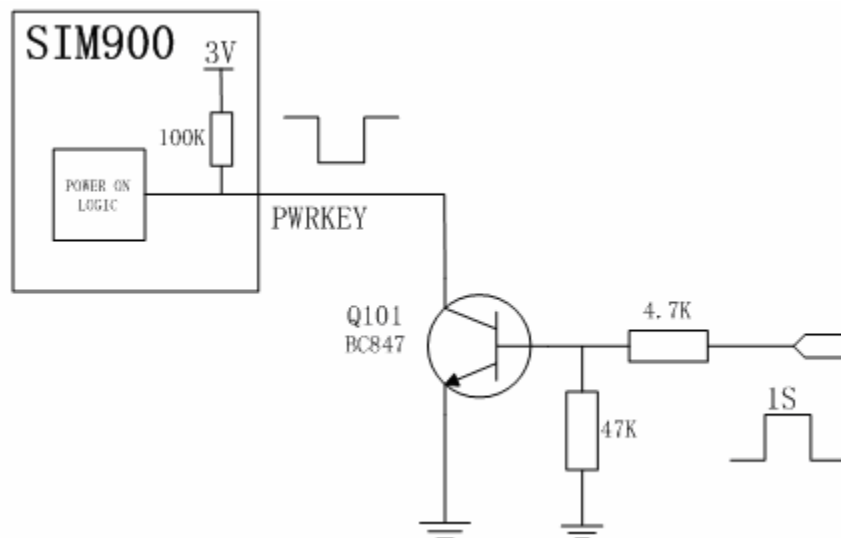


Figure 4: Turn on/off module using transistor

The other way to power on/off SIM900 is connecting PWRKEY and PWRKEY_OUT together. In this way, a P-channel MOSFET is needed. The first way is recommended. In this way, PWRKEY_OUT should be kept open.