

NCP785A Family of Wide Input Voltage Range 10 mA Ultra-Low Iq, High PSRR Linear Regulators



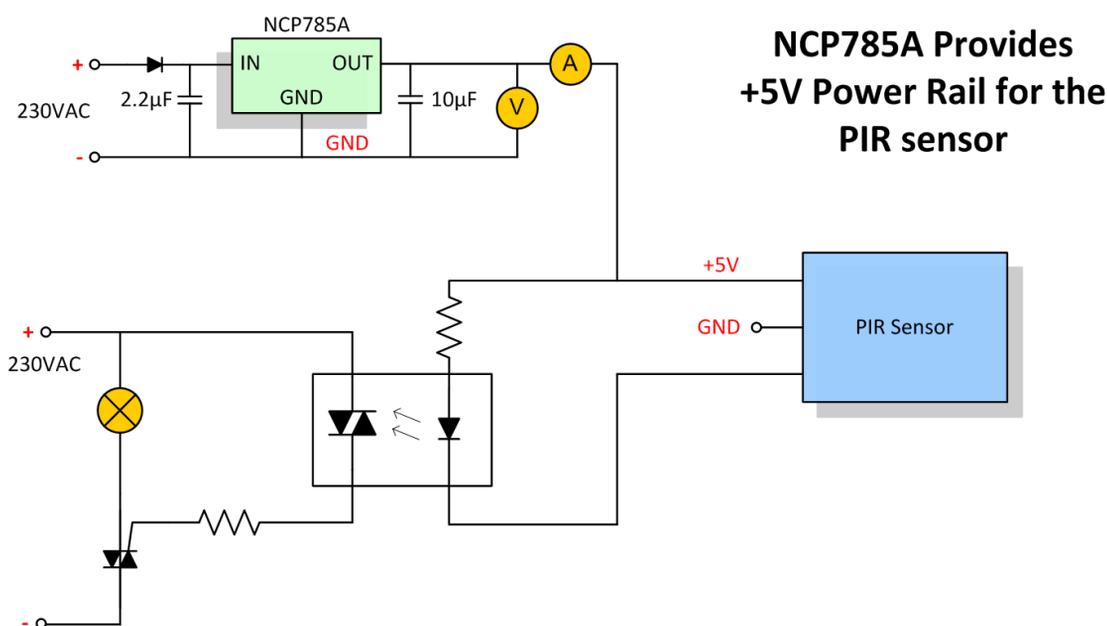
- 45V to 450V recommended V_{IN} range allows to operate directly from rectified 120VAC/230VAC mains voltage.
- Ultra-Low Quiescent Current of Typ. 10 μ A helps to minimize system standby power consumption.
- Very-High PSRR of Typ. 80dB at 120Hz allows for effective filtration of mains AC ripple.
- Option with dedicated enable pin simplifies output voltage ON/OFF control
- Small size package options allow to shrink the PCB area when compared to Capacitive Dropper solution.

Package Offering:

SOT89-3



PIR Motion Sensor Demo



**NCP785A Provides
+5V Power Rail for the
PIR sensor**

PIR Sensor Demo Description

NCP785A provides a regulated 5V for the PIR sensor and triac driver (optocoupler). The current consumption as well as regulator output voltage is displayed using two small voltage and current meters.

