ON Semiconductor®

ALS-GEVB: Ambient Light Sensor (ALS) Shield Evaluation Board

The NOA1305 ambient light sensor (ALS) is designed for handheld applications and integrates a 16-bit ADC, a 2-wire I2C digital interface, internal clock oscillator and a power down mode. The built in dynamic dark current compensation and precision calibration capability coupled with excellent IR and 50-60 Hz flicker rejection enables highly accurate measurements from very low light levels to full sunlight. The device can support simple count equals lux readings in interrupt-driven or polling modes. The NOA1305 employs proprietary CMOS image sensing technology from ON Semiconductor to provide large signal to noise ratio (SNR) and wide dynamic range (DR) over the entire operating temperature range. The optical filter used with this chip provides a light response similar to that of the human eye.

Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used
ALS-GEVB	Active	Pb-free	Ambient Light Sensor (ALS) Shield Evaluation Board	NOA1305CUTAG , PCA9655EMTTXG