Description

The proximity detection feature allows a large dynamic range of operation for use in short distance detection behind dark glass such as in a cell phone or for longer distance measurements for applications such as presence detection for monitors or laptops. The programmable proximity detection enables continuous measurements across the entire range. In addition, an internal state machine provides the ability to put the device into a low power mode measurements providing very low average power consumption.

Features

- Programmable Proximity Detection
  - Offset Control Register
  - Analog Gain and Integration Time
  - Integrated LED Driver and IRED
- Power Management
  - Low Power 1uA Sleep State
  - 70uA Wait State with Programmable Wait Time from 3ms to 10seconds
- I2C Interface Up to 400kHz (I2C Fast Mode)
- Compact size 2.5 X 2.7 X 0.9mm (ODFN)

Applications

- Cell Phone Touch Screen Disable
- Mechanical Switch Replacement
- Automatic Speakerphone Enable
- Automatic Menu Popup