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1. Feature List

- Proximity detector
 - From under 1 cm to 50 cm without additional lensing.
 - From under 1 cm to 200 cm with additional lensing (e.g., 5 mm hemispherical lens).
 - Up to three independent LED drivers.
 - 30 current settings from 5.6 mA to 360 mA for each LED driver.
 - Operates in direct sunlight with optional on-die 940 nm passband filter.
 - On die 940 bandpass filter that rejects unwanted visible light and IR from daylight and other sources (Si115x- AB09/ AB9X).
- Ambient light sensor
 - <100 mlx resolution possible, allowing operation under dark glass.
 - Up to 128 klx dynamic range possible across two ADC range settings.
- Industry's lowest power consumption
 - 1.62 to 3.6 V supply voltage
 - 9 μ A average current (LED pulsed 24.4 μ s every 800 ms at 180 mA plus 3 μ A Si115x supply)
 - <500 nA standby current
 - 24.4 μ s LED "on" time keeps total power consumption duty cycle low without compromising performance or noise community
 - Internal and external wake support
 - Built-in voltage supply monitor and power-on reset controller
- Trimmable internal oscillator with typical 1% accuracy
- I²C Serial communications
 - Up to 400 k data rate
 - Slave mode hardware address decoding
- Two package options:
 - 10-lead 2 x 2 x 0.65 mm DFN
 - 10-lead 2.9 x 4.9 x 1.2 mm LGA module with integrated 940 nm LED
- Temperature Range: -40 to +85 °C