Proximity Sensor in Compact 2.0 mm x 1.0 mm x 0.5 mm SMD Package

Featuring a VCSEL and Smart Dual I2C Slave Address, Device Offers Idle Current Down to 5 µA
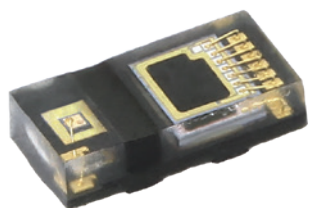
VISHAY

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ADVANTAGE

Fully integrated proximity sensor designed to increase efficiency and performance in battery-powered consumer applications, including TWS earphones and VR / AR headsets

KEY PRODUCT FEATURES

✓ Vertical-cavity surface-emitting laser (VCSEL) with a 940 nm peak wavelength and no visible "red-tail"

✓ Sunlight cancellation up to 140 klx

✓ Combines a photodiode, application-specific integrated circuit (ASIC), 16-bit ADC, and smart dual I2C slave address

✓ 200 mm operating range and typical rated supply voltage of 1.8 V

✓ Intelligent cancellation reduces cross-talk

MARKETS AND APPLICATIONS

CONNECTIVITY
- Mobile devices

CONSUMER
- Entertainment
- Appliances
- Health and care

INDUSTRIAL
- Drives and tools
- Infrastructure
- Home and building controls

COMPUTER
- Computer
- Peripherals

MEDICAL
- Instrumentation, monitoring, therapeutics
- Implantables

RESOURCES

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