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High Speed Silicon PIN Photodiode in Compact SMD Package Offers Enhanced Sensitivity for Visible Light, Simple Integration, Precise Signal Detection, and Design Flexibility

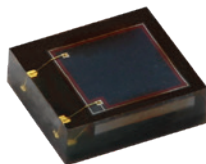


ADVANTAGE

Small form factor photodiode is optimized for heart rate monitoring and pulse oximetry applications

KEY PRODUCT FEATURES

- ✓ Compact 2.0 mm by 1.8 mm by 0.6 mm top-view, surface-mount package with clear epoxy for maximum sensitivity
- ✓ Fast switching times of 70 ns
- ✓ High radiant sensitivity:
 - Reverse light current of 1.17 μ A
 - Dark current of 0.03 nA
- ✓ Low capacitance of 17.6 pF
- ✓ Wide spectrum range from 350 nm to 1100 nm and $\pm 67^\circ$ angle of half-sensitivity
- ✓ Wavelength of peak sensitivity: 940 nm



RESOURCES



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MARKETS AND APPLICATIONS



CONSUMER

- Health and care
 - Fitness tracking and health monitoring
 - Wearable devices

ADDITIONAL BENEFITS

- Allows several photodiodes to be included in the optical system for more precise signal detection
- In wearable devices such as fitness trackers and smartwatches, the photodiode can be used with green LEDs for optical heart rate detection and red LEDs for pulse oximetry applications
- The device is available at a lower cost than previous-generation solutions, making it ideal for cost-sensitive devices like smart bands