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Silicon PIN Photodiode for Biomedical Applications

Device Offers Enhanced Sensitivity, Decreased Diode Capacitance, and Faster Rise and Fall Times

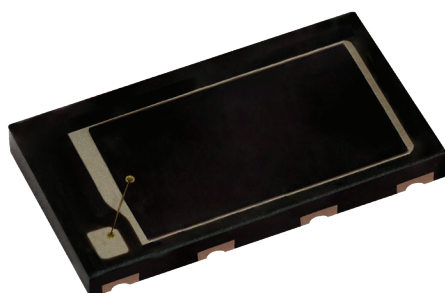


ADVANTAGE

Features larger sensitive area of 6.0 mm², increased reverse light current, and small package of 4.8 mm by 2.5 mm by 0.5 mm

KEY PRODUCT FEATURES

- ✓ High reverse light current of 40 μ A at 850 nm
- ✓ Low diode capacitance of 46 pF
- ✓ Fast rise and fall times of 40 ns
- ✓ $\pm 65^\circ$ angle of half sensitivity
- ✓ Suitable for visible and near infrared radiation



RESOURCES



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MARKETS AND APPLICATIONS



CONSUMER

- Health and care
 - Health monitoring
 - Wearable devices

ADDITIONAL BENEFITS

- The high sensitivity is particularly important in biomedical applications such as heart rate and blood oxygen monitoring, and photoplethysmography (PPG)
- The device's small form factor makes it suitable for integration into low profile devices such as smart watches