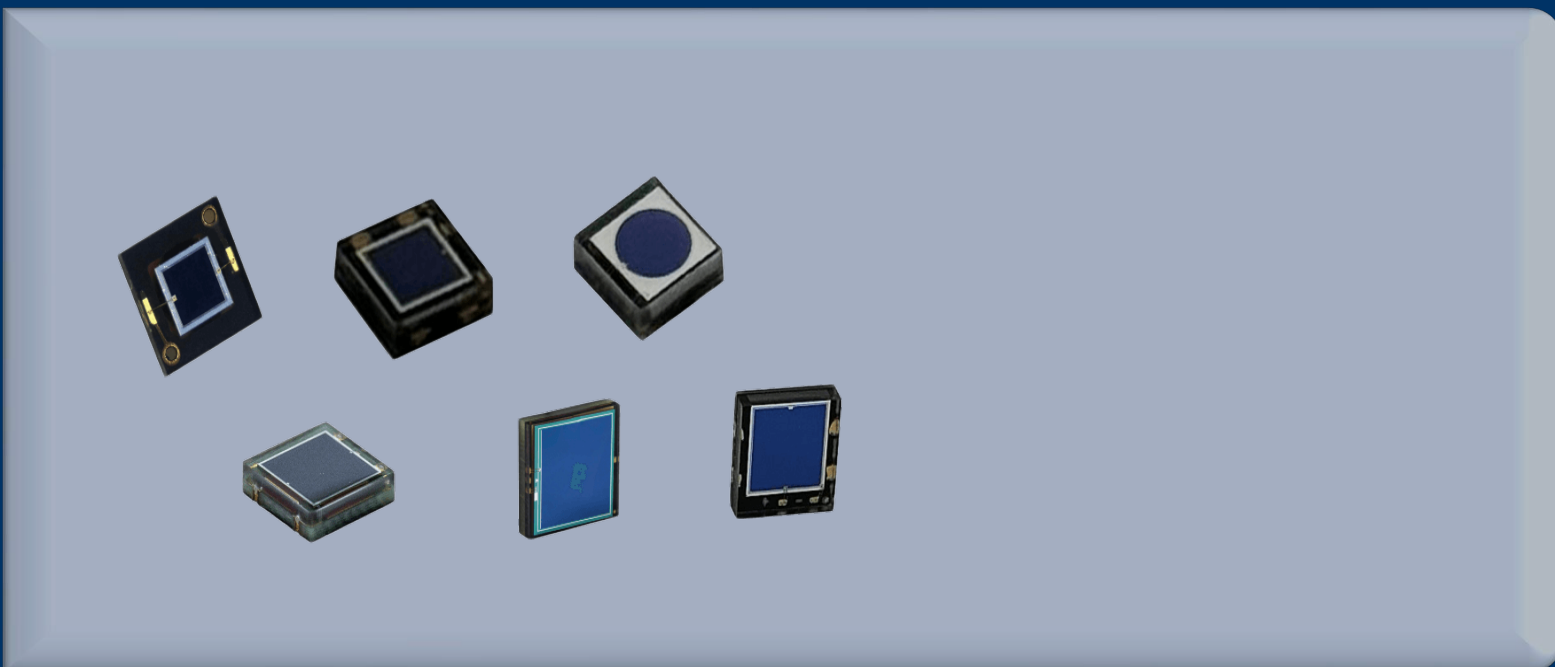


Photodiodes

Low Dark Current Silicon PIN Photodiode (COB packaging)

Core components for high-precision optical signal detection.

- Wide-spectrum precise response
- Ultra-low noise detection capability
- High integration and mass production adaptability
- Industrial-grade environmental reliability



One Platform Many Possibilities

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Get a Quote



Get Expert Advice
+658099 5547 (WhatsApp)



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Overview

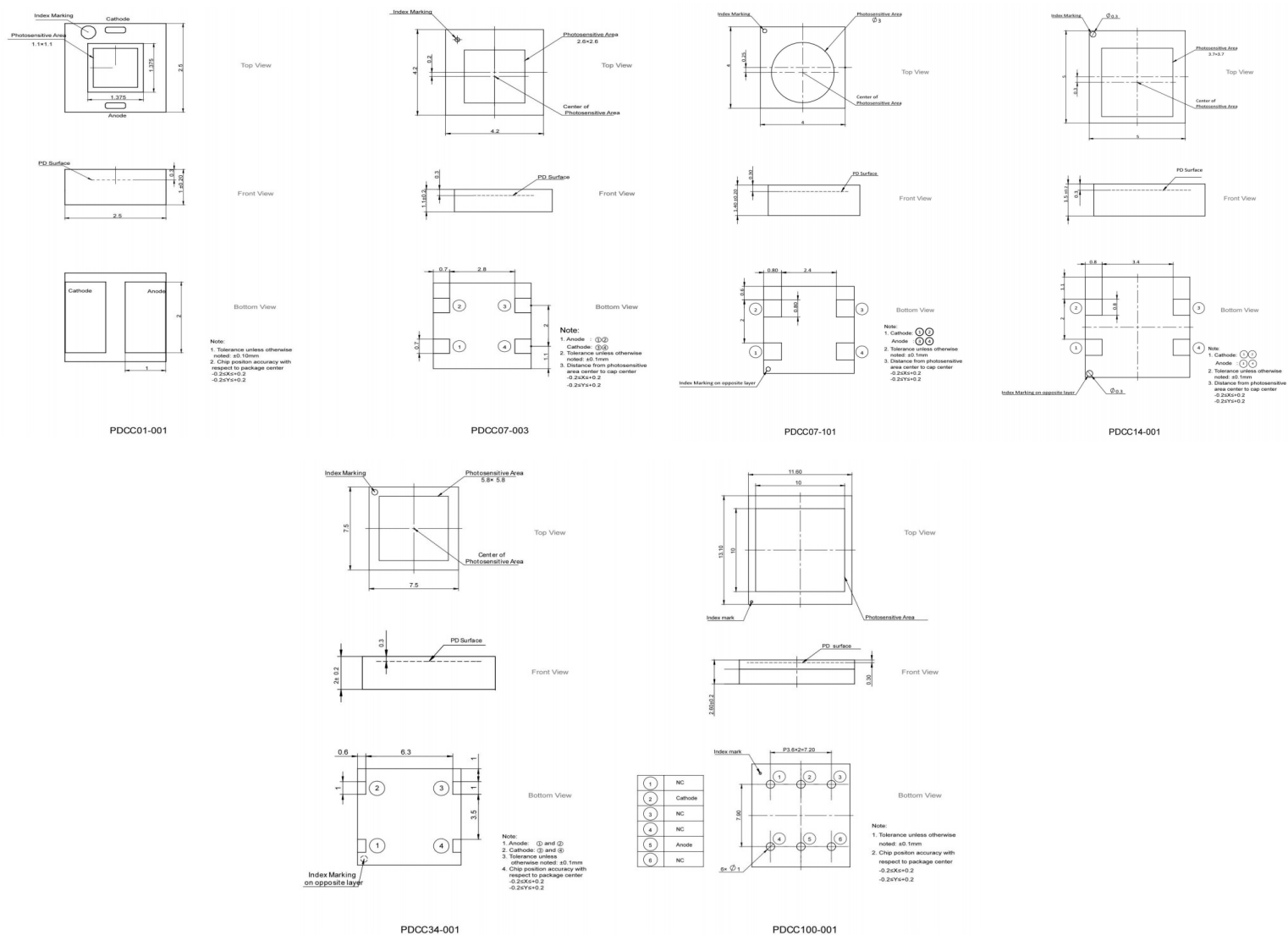
Introduction:

This product features a spectral response range of 50~1060nm, with extremely low dark current and low junction capacitance characteristics. It adopts COB packaging and is suitable for lead-free reflow soldering, making it widely applicable in optoelectronic measuring instruments, optical analysis equipment, and optical power monitoring scenarios. It uses Chip-on-Board (COB) packaging, which balances miniaturization and industrial-grade reliability, enabling it to accurately capture optical signals and convert them into electrical signals.

Features:

- Extremely low dark current, accurate detection of weak light
- Strong adaptability of COB packaging, convenient integration
- Wide spectral response, wide scene coverage
- Industrial-grade reliability, stable and durable

Dimension:



Specifications

Common Parameter Specification Table

Core Parameter Item	Parameter Value
Spectral Response Range	350~1060 nm
Package Type	COB (Chip-On-Board)
Window Material (Default)	Resin (Customizable)
Operating Temperature Range	-20~+80 (No Condensation)
Storage Temperature Range	-20~+80 (No Condensation)
Reverse Voltage (MAX)	20 V
ESD Protection (HBM Mode)	1000 V
Applicable Soldering Process	Lead-Free Reflow Soldering (260 , <5s)

Service & Support

We are dedicated to delivering exceptional optoelectronic solutions to every client. From precision manufacturing and secure delivery to full-lifecycle technical support, we are here to ensure a seamless and reliable experience at every step.

1. Warranty Policy

Quality First, Worry-Free Operation

Warranty Period: We offer a **two-year** warranty service for all of our core optoelectronic products, effective from the date of shipment.

Coverage: We provide free repair or replacement services for malfunctions caused by material defects or workmanship errors under normal operating conditions.

Rapid Response: Upon receiving a warranty claim, we guarantee to initiate the assessment process within **24 hours** to minimize your equipment downtime.

2. Technical Support

Expert Team, Full-Process Guidance

Technical Consultation: Our team of senior optical engineers provides **24/7 online support** to assist with installation, commissioning, optical path alignment, and parameter optimization.

Scheduled Maintenance: We offer full-lifecycle maintenance recommendations, including firmware upgrades, optical component cleaning guidelines, and precision calibration services.

Training Services: We provide customized remote or on-site operational and safety training to ensure your team can operate the equipment efficiently and safely.

3. Logistics & Delivery

Precision Packaging, Global Reach

Professional Packaging: Given the fragile nature of optical instruments, we utilize industrial-grade shockproof, anti-static, and moisture-proof vacuum packaging to ensure zero damage during transit.

Logistics Partners: We partner with top-tier global logistics providers (**DHL / FedEx / UPS / SF Express**) to offer reliable shipping with real-time tracking.

Shipping Insurance: All shipments are fully insured to eliminate logistics risks.

4. Compliance & Certification

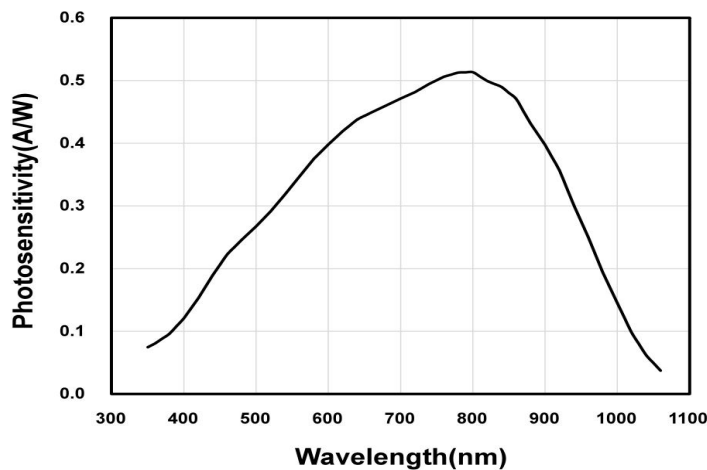
Strict Standards, Total Compliance

Quality Certification: Our manufacturing process is **ISO 9001 certified**, and our products comply with international standards such as **CE** and **RoHS**.

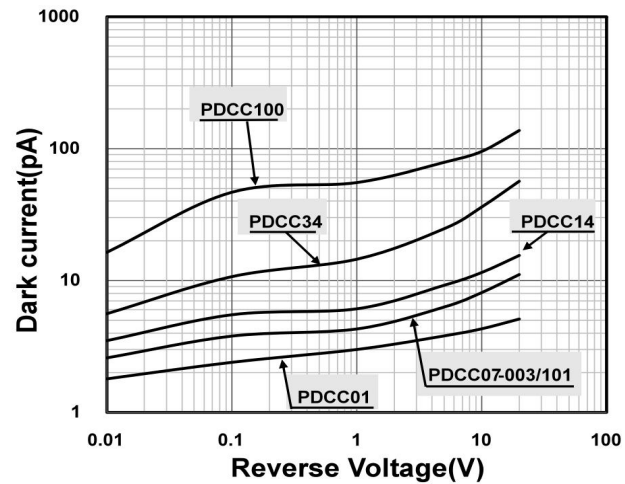
Export Compliance: "Committed to environmental responsibility, all our products comply with **RoHS 2.0** and **REACH** standards, ensuring safety and global compliance."

Applications

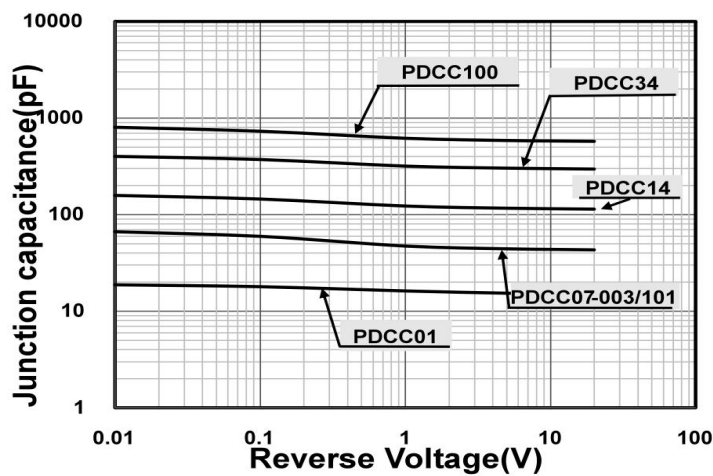
Spectral response



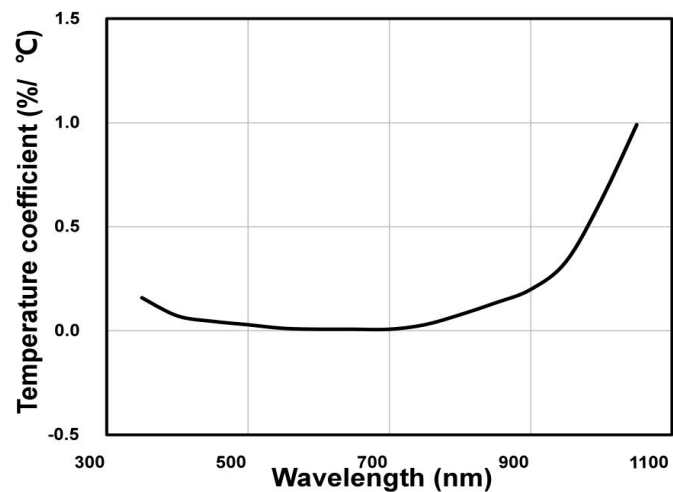
Dark current vs. reverse voltage



Junction capacitance vs. reverse voltage



Photosensitivity temperature characteristics



Explore Series

Model	Photosensitive Area Size (with Shape)	Rise Time (Typ., μ s)	Junction Capacitance (Typ., pF)	Dark Current (Typ./Max., pA)	Equivalent Noise Power (Typ., W/Hz ² /° ²)	Shunt Resistance (Typ./Min., G Ω)
PDCC01-001	1.1×1.1mm (Square)	0.04	1.125	1/6	2.5×10^{-15}	1.7/10
PDCC07-003	2.6×2.6mm (Square)	0.18	80	2.5/15	3.6×10^{-15}	0.8/5
PDCC07-101	Φ3.0mm (Circular)	0.18	80	2.5/15	3.6×10^{-15}	0.8/5
PDCC14-001	3.7×3.7mm (Square)	0.35	160	3.5/20	4.7×10^{-15}	0.5/3
PDCC34-001	5.8×5.8mm (Square)	0.9	400	5/30	5.6×10^{-15}	0.3/2
PDCC100-001	10×10mm (Square)	1.8	800	15/90	9.8×10^{-15}	0.1/0.7

📧 Get in touch with our team to explore configurations, request a quote, or learn more about customized solutions tailored to your needs.

Let us help you move science forward—faster and smarter.

Get a Quote



Get Expert Advice
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