

PR5001 - Dual Photo Diode

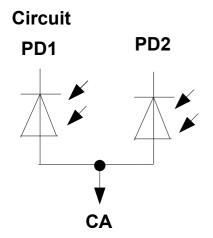
The PR5001 is a dual-element Si photo diode molded into a very small plastic leadless optical package. The photo diodes offer a very good symmetry, low dark current and high sensitivity.

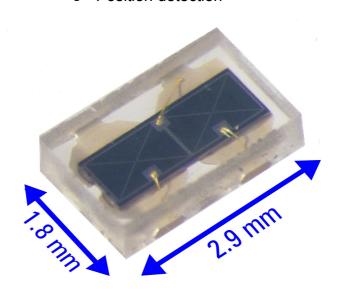
Features

- Low dark current
- Low capacity
- High sensitivity

Typical Application

- Laser beam alignment
- Opto encoders
- Position detection





Absolute Maximum Ratings

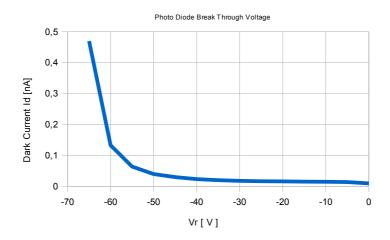
Parameter	Min	Тур	Max	Units
Operating Temperature Range	-20		85	°C
Storage Temperature Range	-55		100	°C

Electrical Characteristics

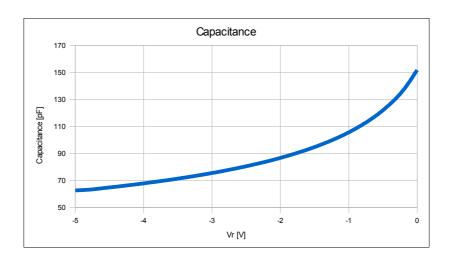
Parameter	Conditions	Min	Тур	Max	Unit s
Spectral response range λ		500		1000	nm
Dark current ID	T = 25°C		10		рА
Temperature coefficient of ID	Vr=10V		1.10		Times /°C
Terminal capacitance Ct	Vr = 10V, f = 1 MHz		60		pF



Dark current vs. reverse voltage

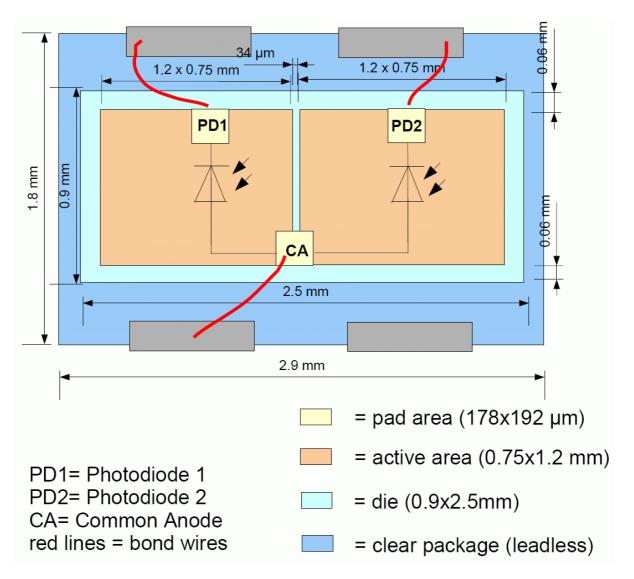


Capacitance f = 1 MHz





Dimensional Outlines and Layout



Pin Description

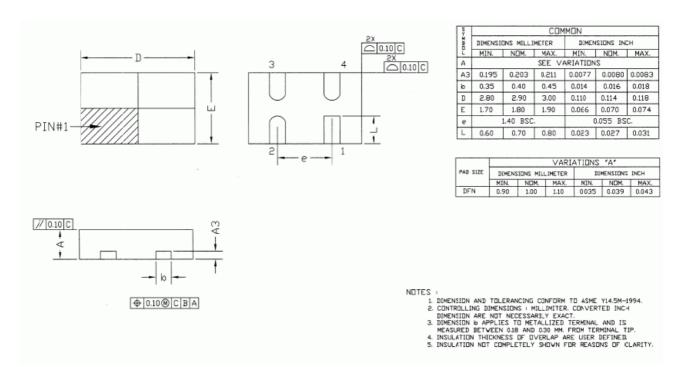
Pin No.	Pin Name	PIN Function Description
1	CA	Common Anode
2		Not connected
3	PD2	Cathode photo diode 2
4	PD1	Cathode photo diode 1

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Preliminary



Package



Disclaimer

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