



PD10M

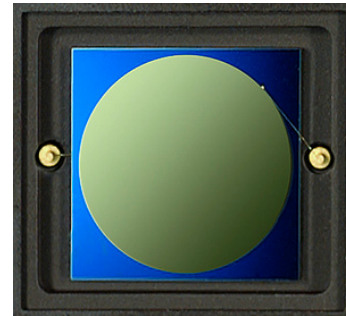
10mm InGaAs Photodiode

FEATURES

- Planar Structure
- Dielectric Passivation
- High Shunt Resistance
- High Responsivity

APPLICATIONS

- Sensing
- High Sensitivity Instrumentation



PD10M-1xx
Ceramic Flat Pack

PRODUCT DESCRIPTION

The PD10M is an InGaAs photodiode with a 10mm photosensitive region. The device is offered in both circular (10mm in diameter) and square (10mm edge length) formats. Applications include sensing and other high sensitivity instrumentation. Class A devices

feature very low dark current and high shunt resistance. High reliability is assured through planar semiconductor design and dielectric passivation. The device is available in a ceramic flat pack. Custom packages are an option.

ELECTRICAL CHARACTERISTICS

Table 1: Electrical Specifications

PARAMETER	MIN	TYP	MAX	UNIT
Dark Current (I_D) ⁽¹⁾	-	2	-	μA
Responsivity at 1310nm	0.80	0.90	-	A/W
Responsivity at 1550nm	0.85	0.95	-	A/W
Shunt Resistance (Class A) ⁽²⁾	60	-	-	K Ω

(1) 0.3V reverse bias

(2) 0V reverse bias

PD10M



ELECTRICAL CHARACTERISTICS (cont)

Table 2: Absolute Maximum Ratings

PARAMETER	MIN	MAX	UNIT
Forward Current	-	200	mA
Reverse Current	-	30	mA
Reverse Voltage	-	0.5	V
Operating Case Temperature	-40	+85	°C
Storage Temperature	-40	+85	°C
Soldering temperature (10 seconds)	-	+250	°C

Stresses in excess of the absolute ratings may cause permanent damage. Functional operation is not implied under these conditions. Exposure to absolute ratings for extended periods of time may adversely affect reliability.

ORDERING INFORMATION

Part Number	Options
PD10M-0xx	Custom defined size and electrical layout
PD10M-1xx	Ceramic flat pack

Please contact Anadigics for the specific part number and pinout that suits your needs

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WARNING

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