

Ultra-Large Area InGaAs p-i-n Photodiode

35PD10M

The 35PD10M is the largest standard InGaAs detector available on the market. Both circular (10 mm diameter) and square (10 mm edge length) formats are offered. Standard packaging includes a hermetic TO-3 header and a ceramic flat pack. Custom packaging would also be available. Reliability is assured by planar, dielectric-passivated design. Applications include high sensitivity instrumentation and test equipment.

Features

Planar Structure Dielectric Passivation High Dynamic Impedance High Responsivity

Device Characteristics:				
Parameters	Test Conditions	Typical Performance	Units	
Dark Current	-1.0V	20	μΑ	
Capacitance	-1.0V	3	nF	
Responsivity	1300nm	0.9	A/W	
	1550nm	1.0	A/W	
Rise Time (e	est. 50 ohm load)	1.0	μs	
Dynamic Impeda	ince 0V	<u>≥</u> 60	K ohm	
Spectral Range		850 - 1650	nm	
Absolute Maximum Ratings				
Reverse Voltage		1 Volt		
Forward Current		200 mA		
Reverse Current		30 mA		
Operating Temperature		$-40^{\circ}\text{C} \text{ to} + 85^{\circ}\text{C}$		
Storage Temperature		-40° C to $+85^{\circ}$ C		
Soldering Temperature		250°C		

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35PD10M		
Application: Ultra-large Area InGaAs p I+n Photodiode	Specifications Operating Voltage Max	
	Dark Current -0.3V Typ	• • • • • • • • • • • • • • • • • • •
Description: The SPROMS TO, an InGales photodiode with a firms-diameter photosensitive packaged in a TO.5 header, is designed for applications in high sensitivity instrumentation and sensing. Devices are hemorically sealed. Class A decurrent and high dynamic impedance. High reliability is achieved through planar semiconductor design and delectric passivation. Clips can also be attached and wire bonded to customer-supplied of other specified packages.	evices feature very low dark Responsivity 1550nm ns Typ Rise/Fall Typ	ί 1 (μα Τγρ)
Features:	Base-Ful Typ Dynamic Impedance Class A Typ Dynamic Impedance Class B Typ	• · · · · · · · · · · · · · · · · · · ·
- Planar Structure		
High Responsivity		
Related Information		
Product information:		
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