

Introduction

This product is a front side illuminated InGaAs large area monitor PIN photodiode chip that features a planar structure with anode on front side and cathode on backside. This product has a large 1mm detection window, with an excellent responsivity in the wavelength region from 980nm to 1620nm, mainly designed for various LD monitoring application.

Key Features

Applications

- Planar structure on n+ InP substrate with top anode contact
- 1mm optical detection window optimized for LD monitoring
- Low operating bias voltage
- -40C to 85C operation range
- Deliverable in GCS Known Good Die[™] with 100% testing and inspection
- RoHS compliant
- Customized chip dimension available

SPECIFICATIONS (T=25C°)

	Conditions	Min.	Typical	Max.	Unit	Notes
Responsivity	1310nm	0.8	0.9	-	A/W	
	1550nm	0.9	0.95	-	A/W	
Capacitance	-5 V	-	45	50	pF	
Breakdown	1μA	20	-	-	V	
Dark current	-5V	-	1.5	2.5	nA	
Bandwidth		-	0.1	-	GHz	

ABSOLUTE MAXIMUM RATING

Rating		
-20V		
-10mA		
10mA		
10mW		
-40C to 85C		
-55C to 125C		
320C / 5 sec		

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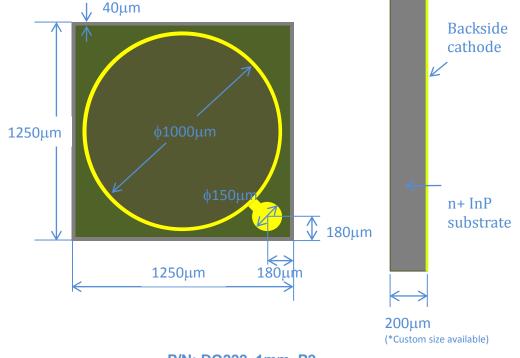
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Large area LD monitoring



Made in USA

DIMENSIONS						
	Conditions	Min.	Typical	Max.	Unit	Notes
Detection Window			1000		μm	
Bonding pad diameter			150		μm	for p-pad
Metal height of bond pads			1.6	-	μm	Au metal
Die height		190	200	210	μm	
Die width		1240	1250	1260	μm	
Die length		1240	1250	1260	μm	



P/N: DO222_1mm_P2

Attention: InP brittle material and electrostatic sensitive device, observe precaution for handling.

About GCS:

GCS has a long history manufacturing and shipping both GaAs and InGaAs based photo diodes since 2000. Our state of art manufacturing facility is located in Torrance, California, and has about 10,000 square feet of fab space with a capability of about 1200 4-inch wafers per month and expandable to 2000 wafers per month. GCS as a world-class semiconductor device manufacturer has been delivering a total of over 30 million photo diodes with various date rates and applications used for optical communications, which have been deployed in field by top tier optical transceiver companies worldwide.

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