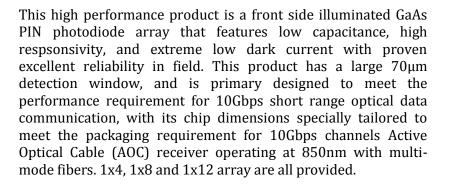


Introduction

DATASHEET



Applications

Infiniband

SONET/SDH

10Gbps AOC (Active Optical

Cable) receiver at 850nm

850nm 10G 1x4, 1x8, 1x12

Key Features

- Mesa structure with 70µm optical detection window
- Excellent low dark current and capacitance
- -40C to 85C operation range
- Suitable for non-hermetic package
- Customization for 1x4, 1x8 and 1x12 array configuration
- Different pad sequence available.
- Highly robust 4" GaAs IC wafer fab with fast cycle-time
- Deliverable with 100% testing and inspection
- RoHS compliant

Conditions Notes Min. **Typical** Max. Unit **Bandwidth** -3V GHz 10 Wavelength range 760 850 860 nm Capacitance -3 V -0.25 0.28 pF Responsivity @850 nm 0.5 A/W 0.6 -**Dark current** -3V <0.1 0.3 nA -**Reverse** -20V 1 μΑ **Breakdown**

SPECIFICATIONS (T=25C°)

ABSOLUTE MAXIMUM RATING

Parameter	Rating
Operating Temperature	-40C to 85C
Storage Temperature	-55C to 125C
Forward Current	10mA

Global Communication Semiconductors, LLC 23155 Kashiwa Court, Torrance, CA 90505 Tel: (310) 530-7274 Fax: (310) 517-8200 e-mail: info@gcsincorp.com www.gcsincorp.com

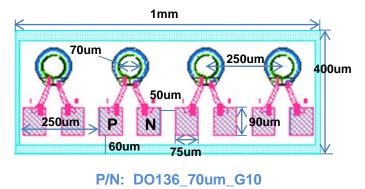
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Made in USA

DIMENSIONS						
	Conditions	Min.	Typical	Max.	Unit	Notes
Detection window		-	70	-	μm	
Die pitch		-	250	-	um	
Bonding pad size		-	75x90	-	μm²	for both p- and n- pads
Die height		140	150	160	μm	
Die width		390	400	410	μm	
Die length			1		mm	For 1x4 Array
			2		mm	For 1x8 Array
			3		mm	For 1x12 Array

BONDING PAD CONFIGURATION



Attention: GaAs 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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