

Features

- 500 μm x 500 μm active area
- Low dark current
- Fast response time
- High speed epitaxy

Description

High speed epitaxy PIN photodiode with 0.25 mm² active area. Ceramic carrier type non hermetic SMD package with clear glass window. Reflow solderable.

Application

- Pulsed light detection
- High speed photometry
- High speed optical communications
- Fiber optic light monitoring

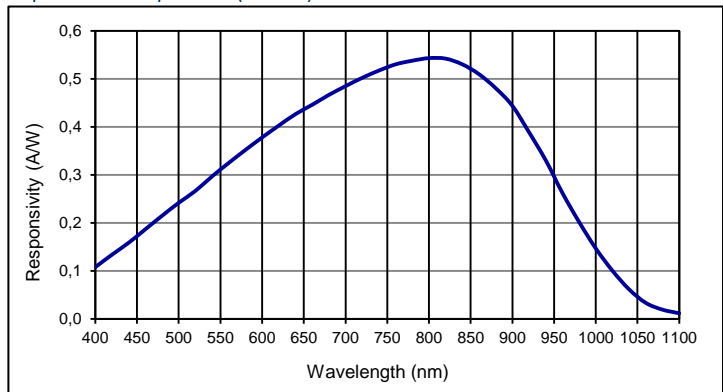
RoHS

2011/65/EU

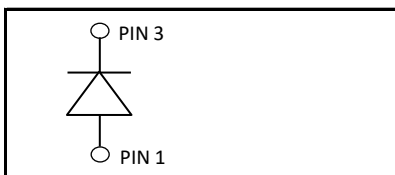
Absolute maximum ratings

Symbol	Parameter	Min	Max	Unit
T _{STG}	Storage temp	-40	100	°C
T _{OP}	Operating temp	-40	85	°C
V _{max}	Max reverse voltage		30	V
I _{PEAK}	Peak DC current		10	mA

Spectral response (23 °C)



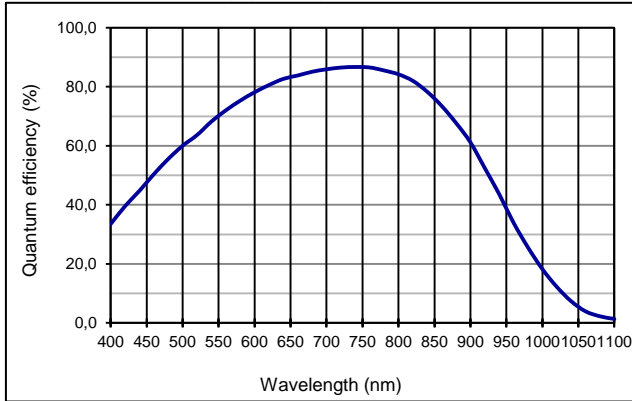
Schematic



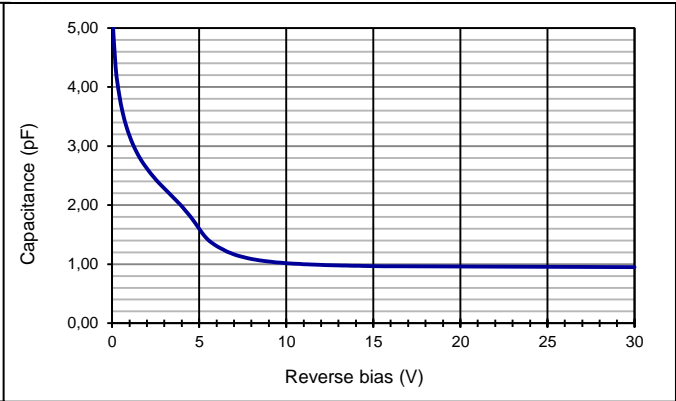
Electro-optical characteristics @ 23 °C

Symbol	Characteristic	Test Condition	Min	Typ	Max	Unit
	Active area		500 x 500			μm
	Active area		0.25			mm ²
I _D	Dark current	V _R = 20 V		0.1		nA
C	Capacitance	V _R = 0 V		6		pF
C	Capacitance	V _R = 20 V		1.8		pF
	Responsivity	λ = 635 nm		0.4		A/W
	Responsivity	λ = 800 nm		0.52		A/W
t _R	Rise time	V _R = 20 V; λ = 850 nm; R _L = 50 Ω		0.4		ns
V _{BR}	Breakdown voltage	I _R = 2 μA	30	50		V
	Shunt resistance	V _R = 10 mV		1000		M Ω
	N.E.P.	V _R = 20 V; λ = 850 nm		1.1 E-14		W/√Hz

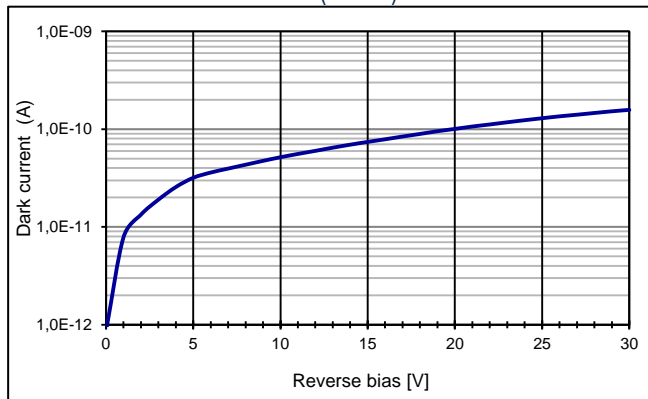
Quantum efficiency (23 °C)



Capacitance as fct of reverse bias (23 °C)



Dark current as fct of bias (23 °C)

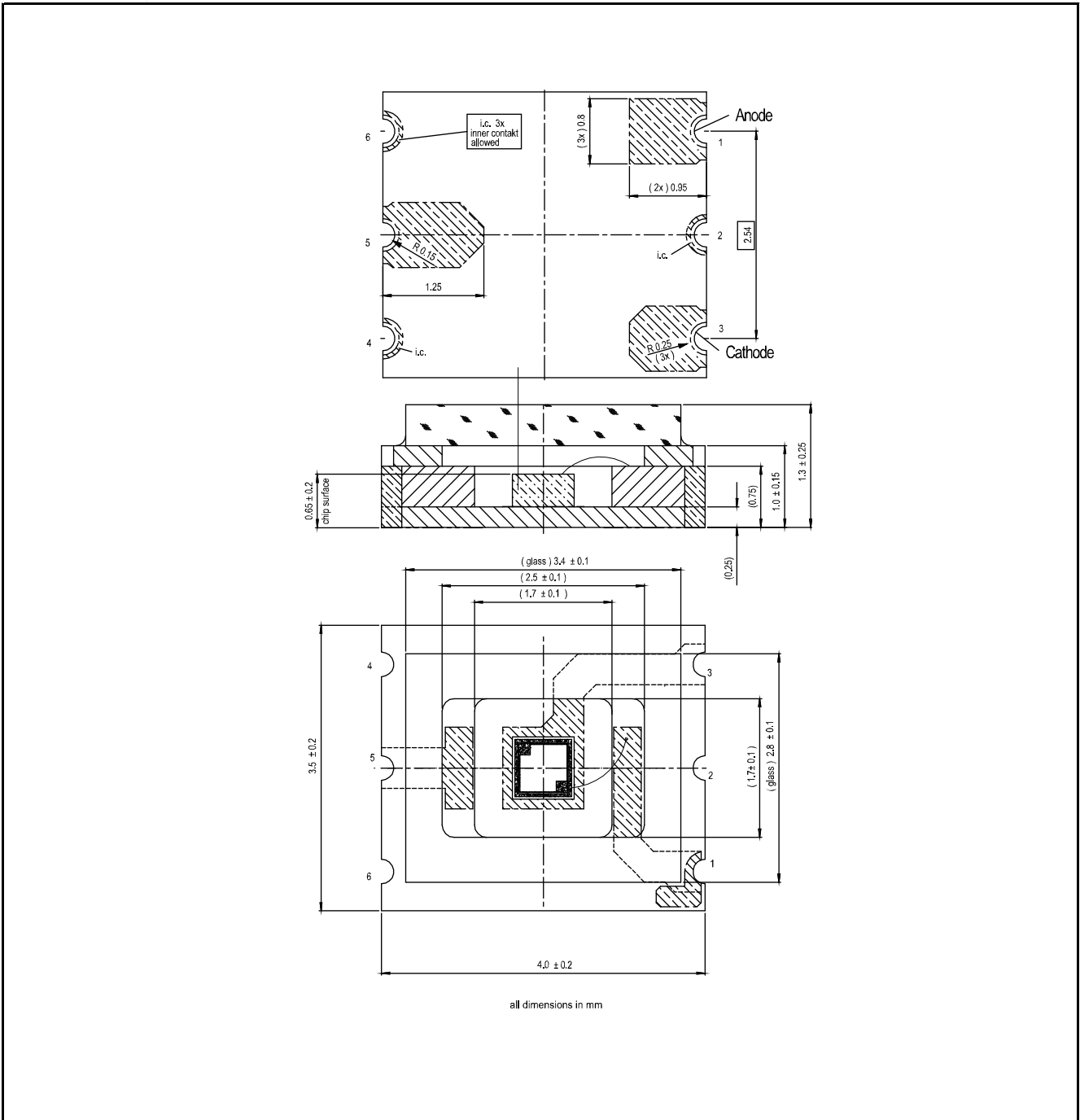


Application hints:

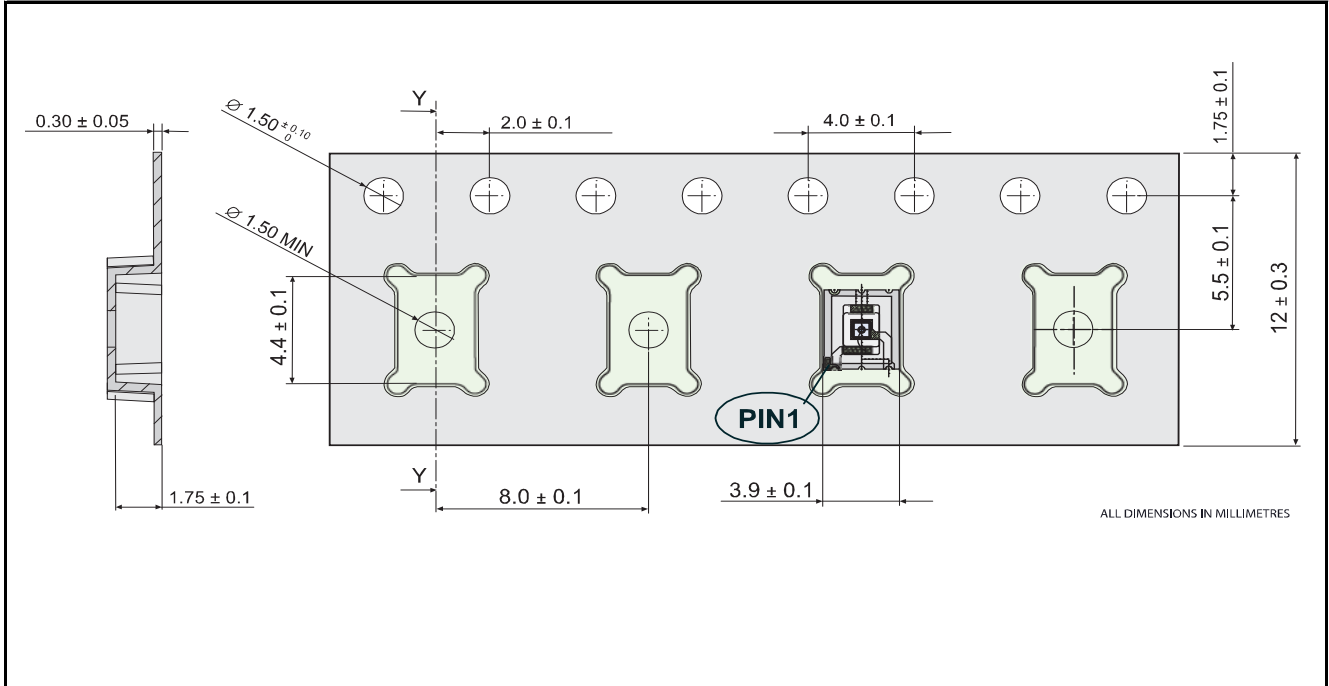
Please refer to document "Instructions for handling and processing"

Technical Drawing, Package: LCC6.1

LCC6.1G with glass cover



Package dimension, large quantities on reel



Package dimension, small quantities in trays

