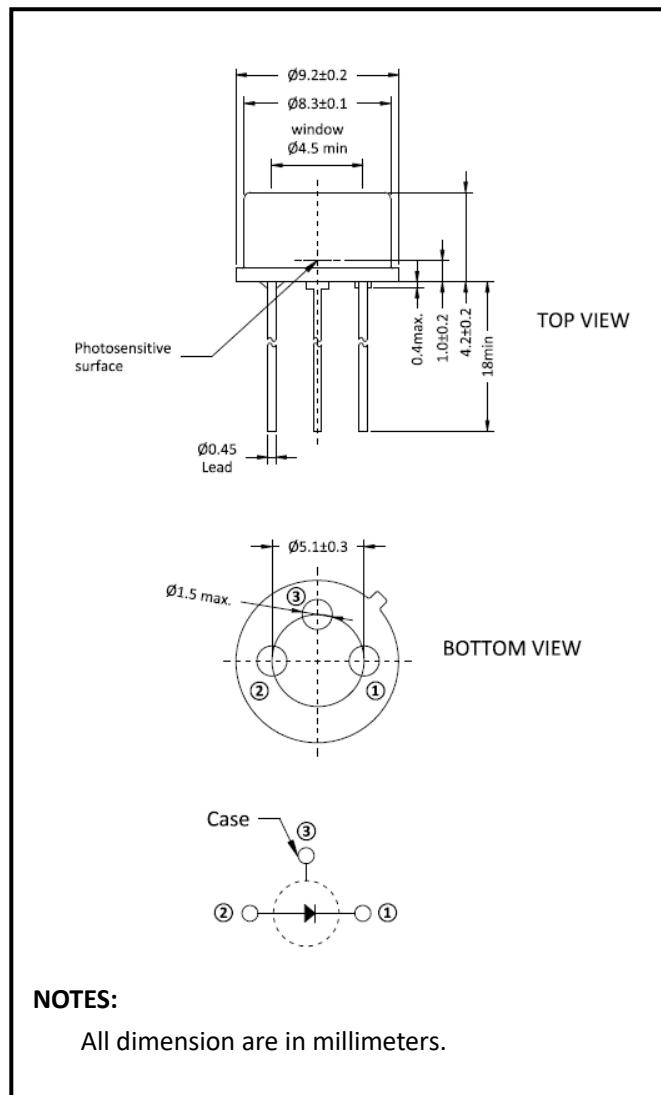


## Extended InGaAs PIN Photodiode

### IGA2000-2.6u



## Description

OTRON SENSOR IGA2000-2.6u is a type of active area size of 2mm diameter active area IR sensitive detectors which Exhibit excellent responsivity from 1000nm to 2600nm, Allowing high sensitivity to weak signals.

We can also custom type according to customer chip size or Package style enquiry.

## Features

- \* Low voltage operation
- \* Isolated type are also available
- \* Spectral Range 1000nm to 2600nm

## General Ratings

- \* Type InGaAs Photodiode
- \* High linearity
- \* Low cost
- \* Low dark current

## Applications

- \* Optical Instrumentation
- \* NIR Sensing
- \* Laser Power Measurement
- \* Power meters

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject change without notice

OTRON ELECTRONIC TECHNOLOGY CO., LTD

TEL:+86-21-54971821  
FAX:+86-21-54971823

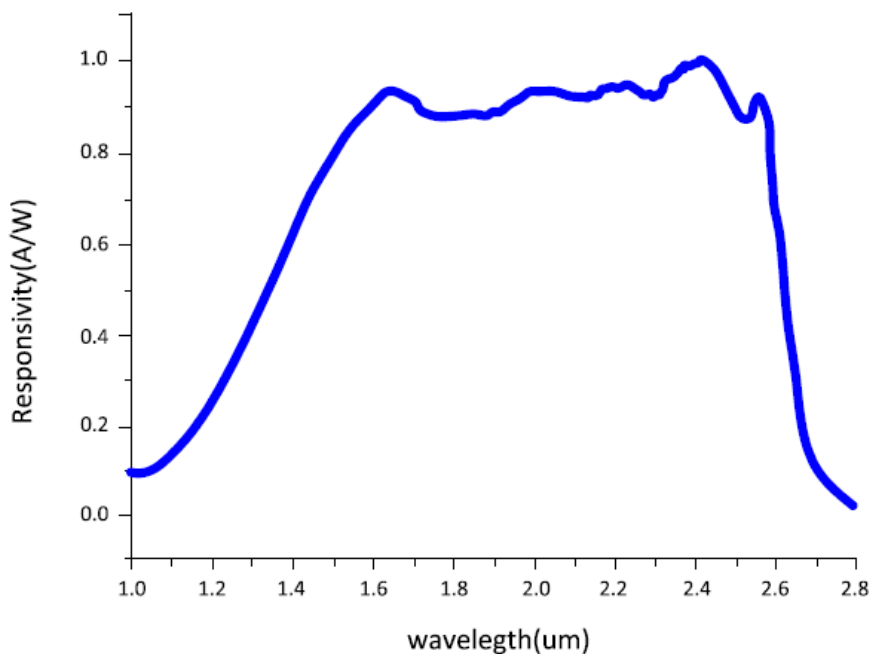
EMAIL: [otron.sensor@gmail.com](mailto:otron.sensor@gmail.com)  
<http://www.e-otron.com>



## Absolute Maximum Ratings (Ta=25°C)

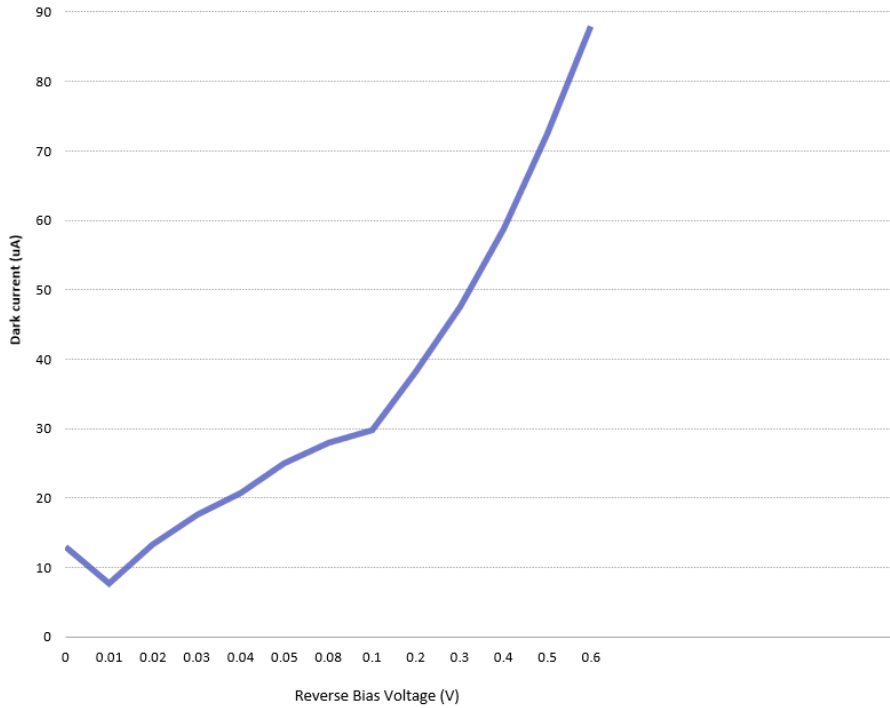
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Chip size	s	3000*3000*175				um
Active area	A	Φ 2000				um
Forward current	I <sub>F</sub>	10				mA
Reverse current	I <sub>R</sub>	10				mA
Dark current	I <sub>D</sub>	V <sub>R</sub> =0V		13		uA
		V <sub>R</sub> =0.5V		72.50		
Cut frequency	f <sub>c</sub>	V <sub>R</sub> =0V;R <sub>L</sub> =50Ω		45		MHz
Reverse breakdown voltage	V <sub>(BR)R</sub>	I <sub>R</sub> =10μA Ev=0lx			1	V
Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> =0V f=1MHz		2.07		nF
Photo sensitivity	S <sub>R</sub>	V <sub>R</sub> =0.1V , λ= 2000nm	0.97			A/W
Spectral Application Range	λ <sub>range</sub>		1000		2600	nm
Spectral Response-Peak	λ <sub>p</sub>			2500		nm
Shunt resistance	R <sub>sh</sub>	V <sub>R</sub> =10mV		8		KΩ
Angular Resp 50% Resp Pt	θ <sub>1/2</sub>			±35		Degrees
Noise Equivalent Power	NEP	λ=2.5um		5.16×10 <sup>-10</sup>		W/Hz <sup>1/2</sup>

### ■ Spectral response



Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject change without notice

## ■ Dark current vs. UR



## ■ Capacitance vs. UR

