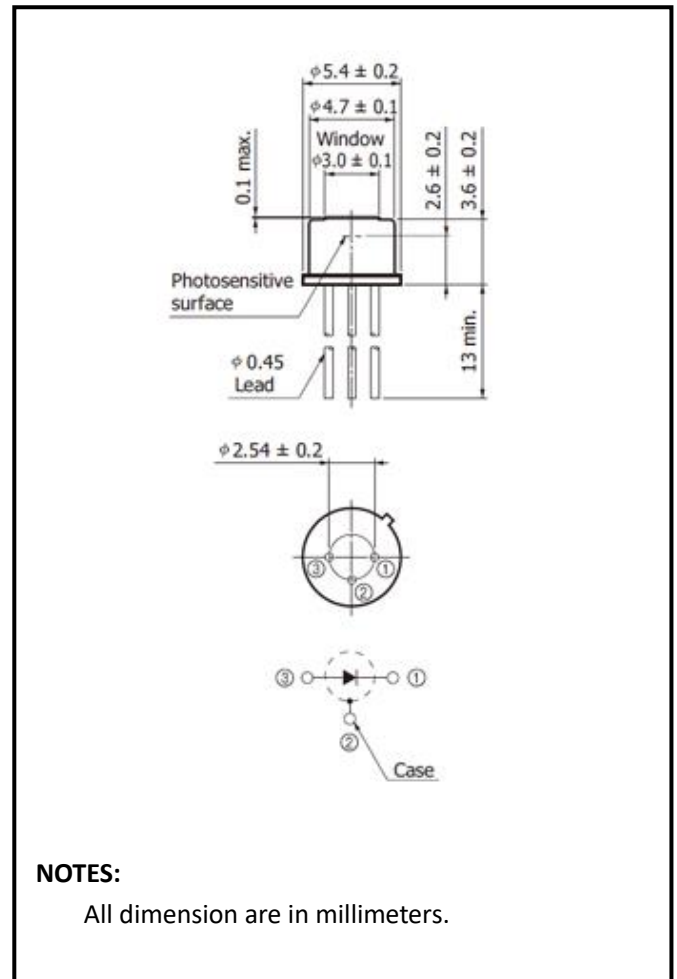


InGaAs PIN Photodiode

IGA500-2.6u



Description

OTRON SENSOR IGA500-2.6u is a type of active area size of 0.5mm diameter active area IR sensitive detectors which exhibit excellent responsivity from 1000nm to 2600nm, allowing high sensitivity to weak signals. These large active area devices are ideal for use in infrared instrumentation and monitoring applications. We can also custom type according to customer chip size or Package style enquiry.

Features

- * Low voltage operation
- * Isolated type are also available
- * Large Active Area Diameter
- * 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

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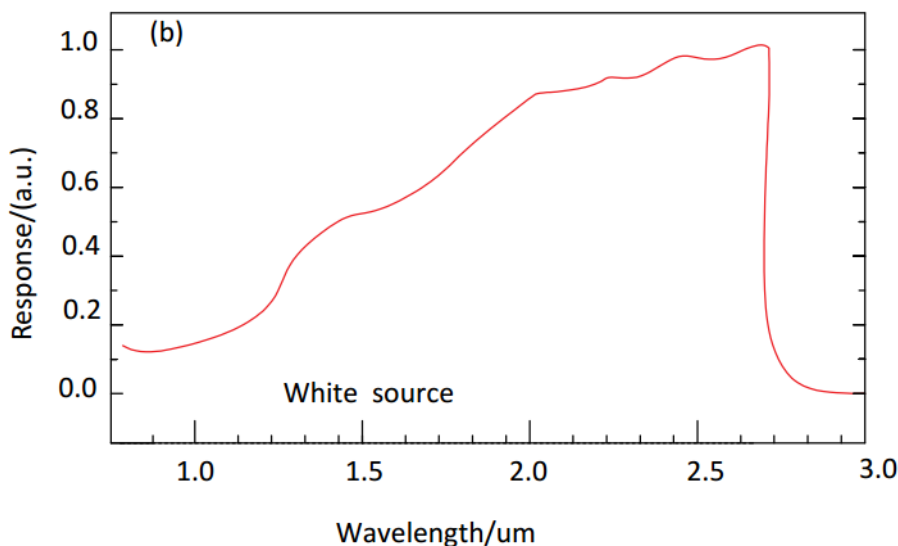
<http://www.e-otron.com>



Absolute Maximum Ratings (Ta=25 °C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Chip size	s	1000*1000*175				um
Active area	A	Φ 500				um
Forward current	I _F	10				mA
Reverse current	I _R	10				mA
Dark current	I _D	V _R =0V		0.33		uA
		V _R =1V		2.40		
Rise time	t _R	V _R =0V;R _L =50Ω, f=1MHz		25	35	ns
Forward Voltage	V _F	I _F =1mA			1	V
Reverse breakdown voltage	V _{(BR)R}	I _R =10μA Ev=0lx	2			V
Junction Capacitance	C _J	V _R =0V f=1MHz		250		pF
Photo sensitivity	S _R	V _R =0.1V, λ= 2000nm	0.97			A/W
Spectral Application Range	λ _{range}		1000		2600	nm
Spectral Response-Peak	λ _p			2500		nm
Shunt resistance	R _{sh}	V _R =10mV		15		KΩ
-3dB Bandwidth	BW	V _R =0.1V; RL=50Ω		6		MHz
		V _R =1V; RL=50Ω		20		
Angular Resp 50% Resp Pt	θ _{1/2}			±35		Degrees
Noise Equivalent Power	NEP	V _R =5V λ=1550nm		5.16×10 ⁻¹³		W/Hz ^{1/2}

■ Spectral response



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