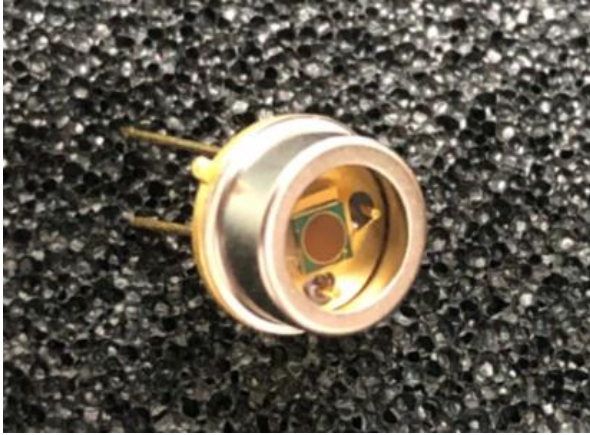


Dual Sandwich Detector

IGA2000-IIT



Description

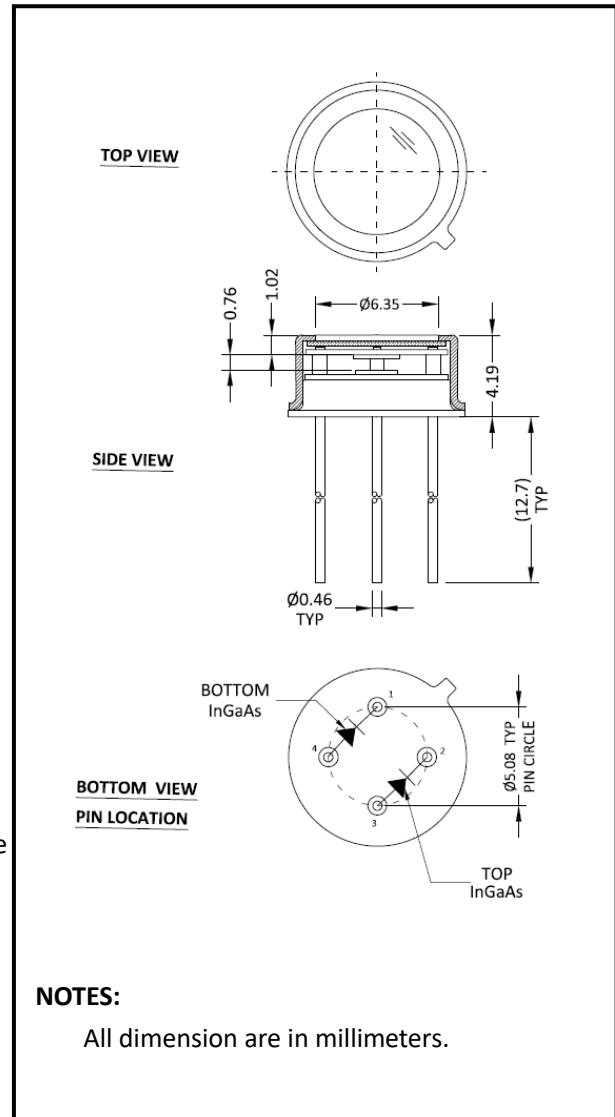
The IGA2000-IIT features dual InGaAs PIN photodiodes vertically integrated in a hermetic TO-5 package. The top photodiode absorbs a portion of the light, and the remaining light is transmitted to the bottom photodiode. The current ratio of the two photodiodes is used to remotely determine and monitor the color temperature sensing.

Features

- * High reliability in demanding environments
- * Operating temperature is from -40 to +125°C
- * Storage temperature is from -55 to +150°C
- * Soldering temperature is 260°C @Max.5 seconds at the position of 2mm from the PIN legs.

Applications

- * Dual wavelength power meters
- * Remote color temperature sensing
- * IR Thermometers for heat treating, induction heating, and other metal parts processing.

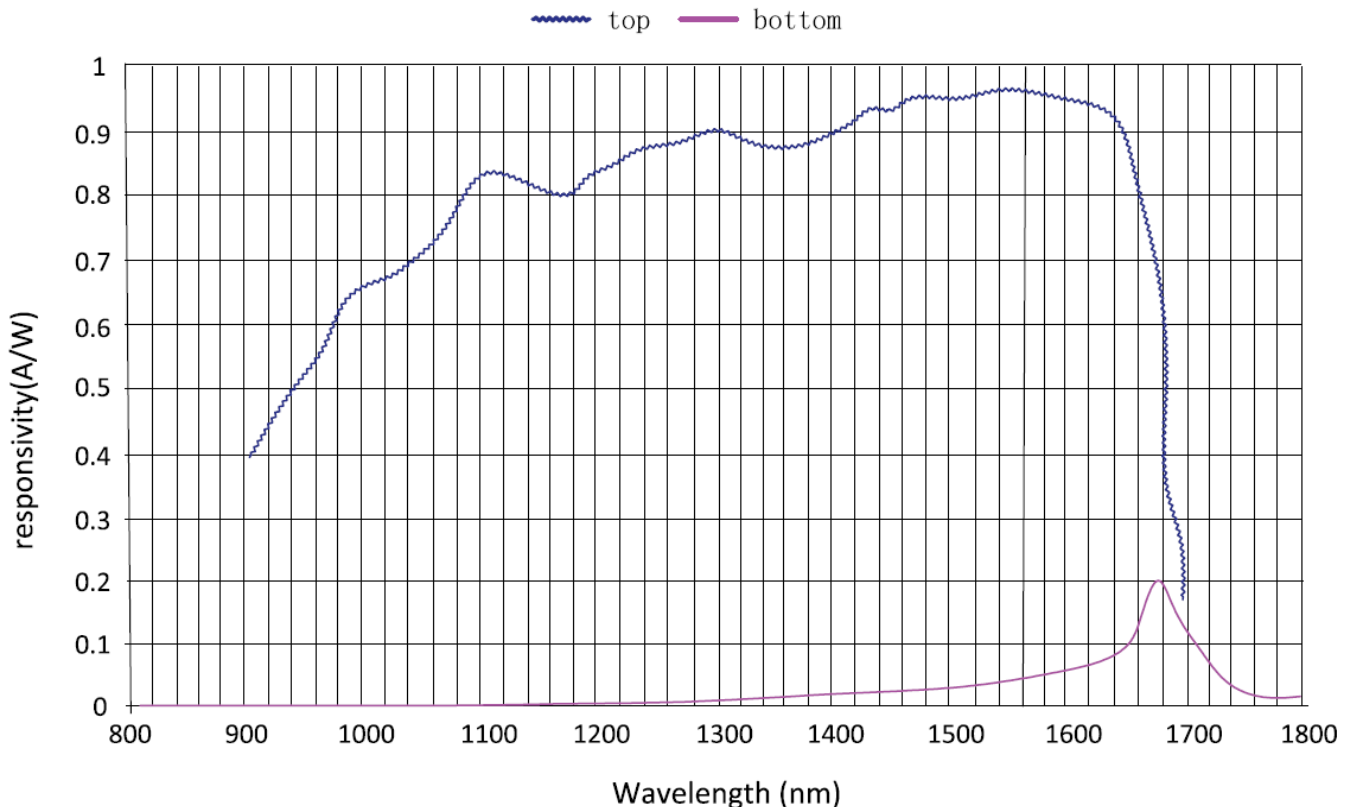


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Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Active area (Top)	A		Φ 2.0			mm ²
Active area (Bottom)	A		Φ 2.0			mm ²
Spectral range of (Top)	λ		800	-	1700	nm
Spectral range of (Bottom)	λ		1600	-	1750	nm
Shunt resistance (Top and Bottom)	Rsh	Vbias=10mV	40			MΩ
Responsivity(TOP)	R	@1300nm	0.90	0.95		A/W
Responsivity(Bottom)		@1700nm		0.10		A/W
Peak NEP(Top)		@1300nm		12	25	fW √ Hz
Peak NEP(Bottom)		@1700nm		21	40	fW √ Hz
Forward Voltage	Vf	I=3mA		0.5	0.8	V
Breakdown Voltage	Vbr	Ir=1uA	15			V
Capacitance (Top and Bottom chip)	C	5V,f=1MHz		400/400		pF
Response time	T	Top/Bottom PD, 0V, 50Ω		4/4		us

■ Spectral response



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