

Dual Sandwich Detector

OSD29-SIT



Description

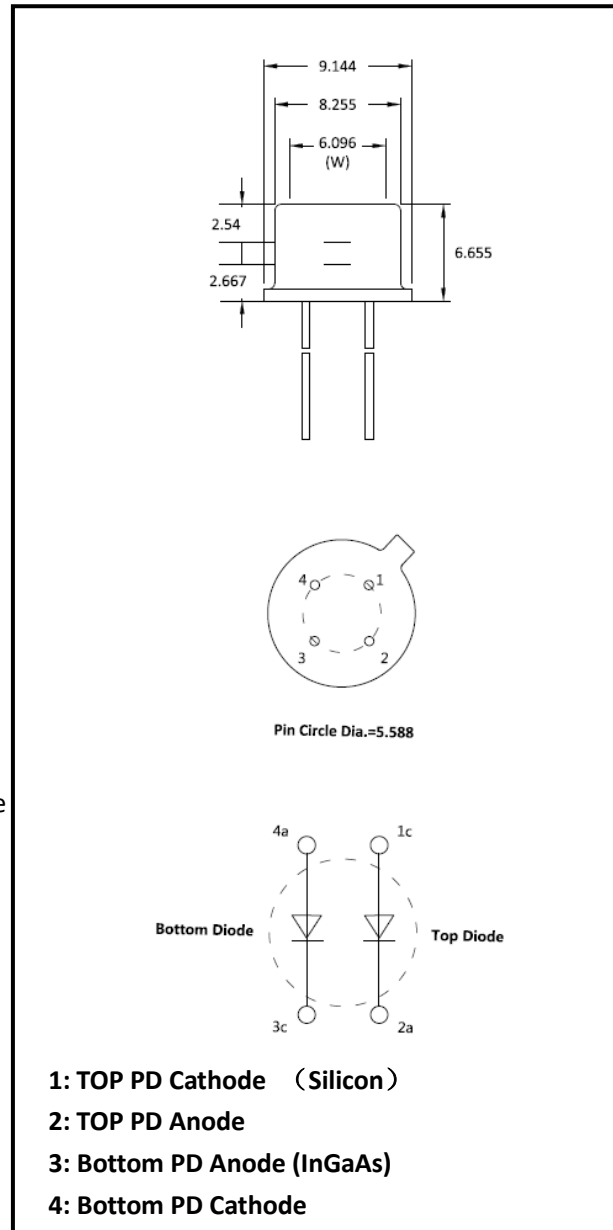
The OSD29-SIT features silicon and InGaAs PIN photodiodes vertically integrated in a hermetic TO-5 package. The top PD absorbs a portion of the light and the remaining light is transmitted to the bottom photodiode. The current ratio of the two photodiodes is used to remotely determine and monitor the 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.

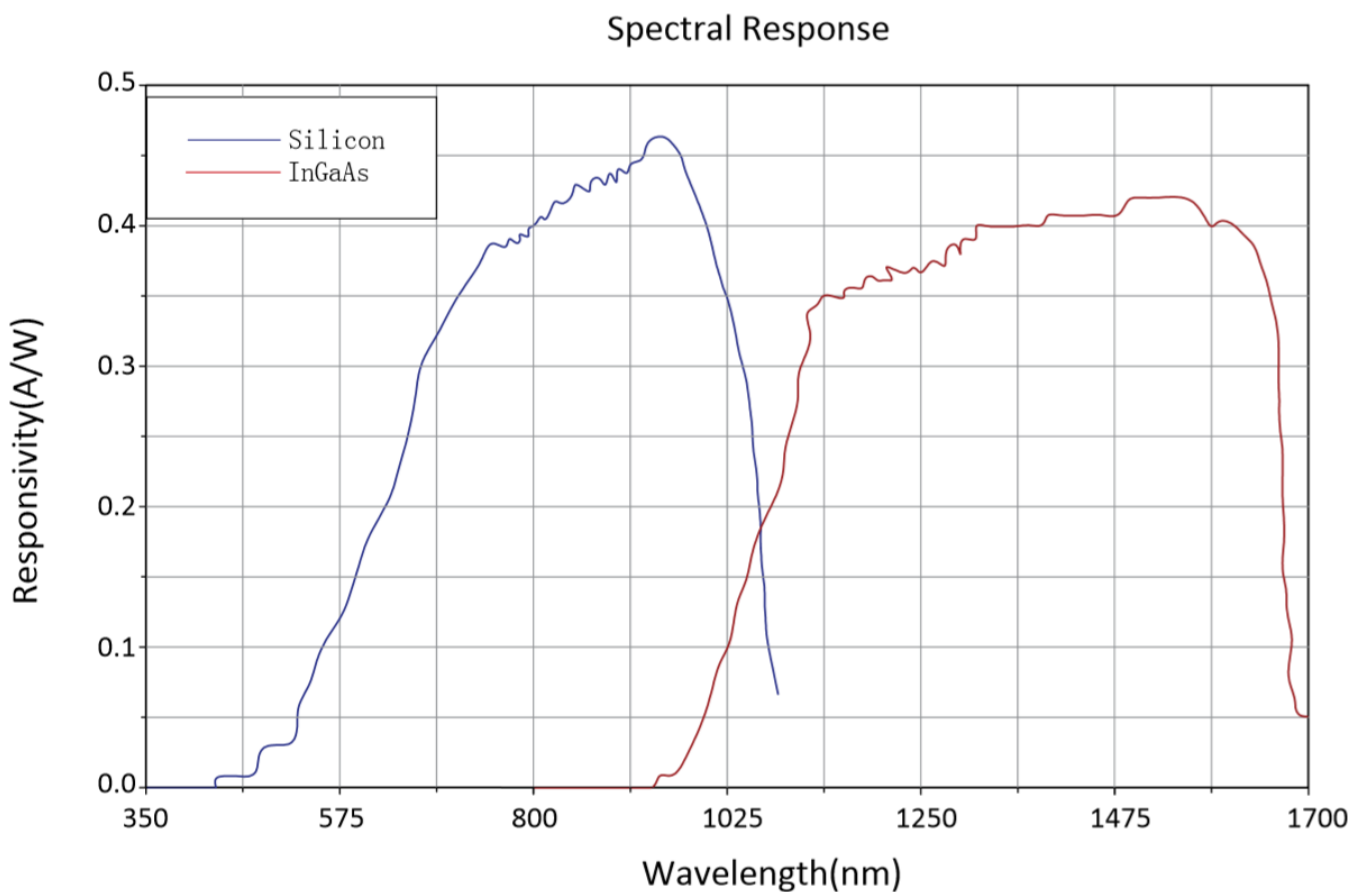


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Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Active area (Top)	A		2.90*2.90			mm ²
Active area (Bottom)	A		Φ 2.0			mm ²
Spectral range of (Top)	λ		300	-	1100	nm
Spectral range of (Bottom)	λ		900	-	1700	nm
Shunt resistance	Rsh	Vbias=10mV		200		MΩ
Responsivity(TOP)	R	@940nm		0.60		A/W
Responsivity(Bottom)		@1300nm		0.44		A/W
Peak NEP(Top)		@950nm		12	25	fW √ Hz
Peak NEP(Bottom)		@1300nm		21	40	fW √ Hz
capacitance	C	0V		440/300		pF
Response time	T	Top/Bottom PD, 0V, 50Ω		4/4		us

■ Spectral response



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