

Cooled Photodiode InAsSb

2.2 – 6.6 μm



DATASHEET

BUY NOW



The CPOD serials cooled InAsSb photodiode is a photovoltaic multi-junction device that provides reduced noise for detecting mid-infrared light in the 2.2-6.6 μm range. These detectors are integrated with one stage TEC cooler and hermetically sealed to ensure longevity. It has an AR coated silicon window and package in a TO39 can. It is fully compliant with RoHs. Additionally, a driving PCB with an amplifier is available for convenient use.

Features

- 2.2 – 2.6 μm
- Low Noise
- High Sensitivity
- Hermetic Sealed Detector
- MEMS Chopper Integration Option

Applications

- OEM
- Lab user
- Instruments

Specifications

Parameter	Min	Typical	Max	Unit	
Central Wavelength	2.2	4.3	6.6	μm	
Sensor Active Diameter		1x1		mm	
Detectivity (@4.3 μm , 20KHz)	>0.9	>0.9	>0.9	$10^9\text{cmHz}^{1/2}/\text{W}$	
Current Responsibility (@14.3 μm)		0.18		A/W	
Time Constant	60	200	800	pF	
Resistance		48		Ω	
Operating Temperature		900		$^\circ\text{C}$	
Storage Temperature	-50		85	$^\circ\text{C}$	
TEC Cooler Power	-10 $^\circ\text{C}$	<1V@2A	<1V@2A	<2V@1.3A	W

Note: The specifications provided are for general applications with a cost-effective approach. If you need to narrow or expand the tolerance, coverage, limit, or qualifications, please [click this link](#):

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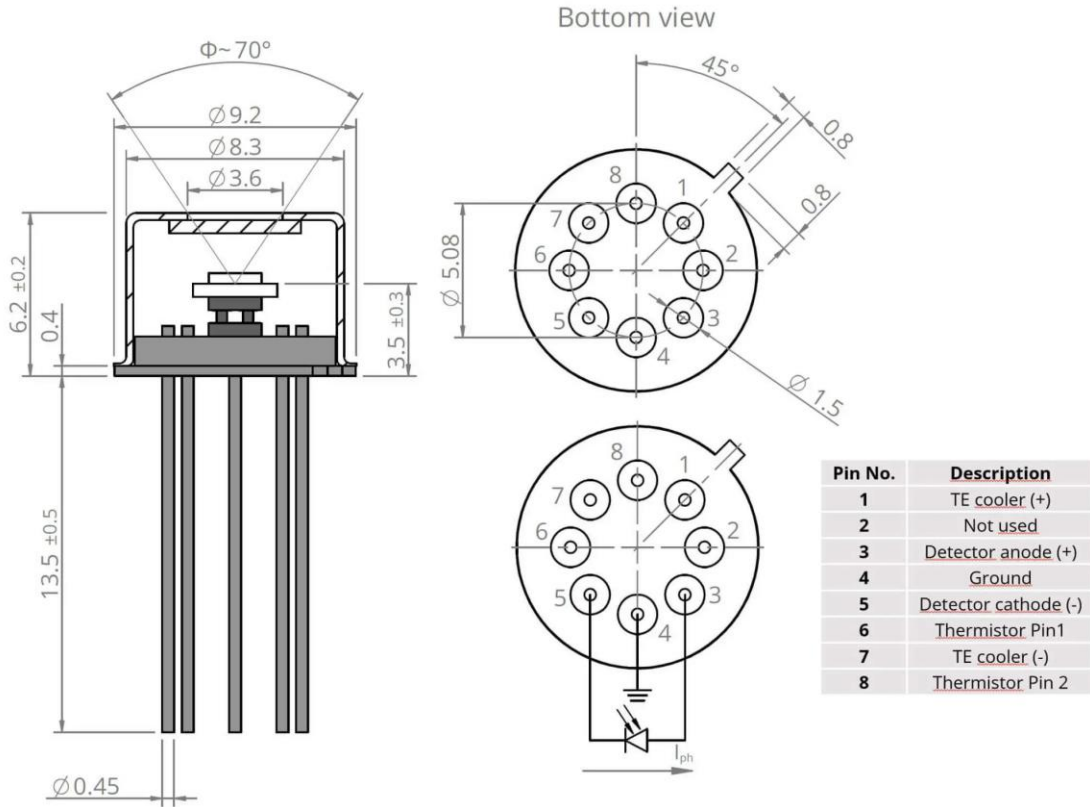
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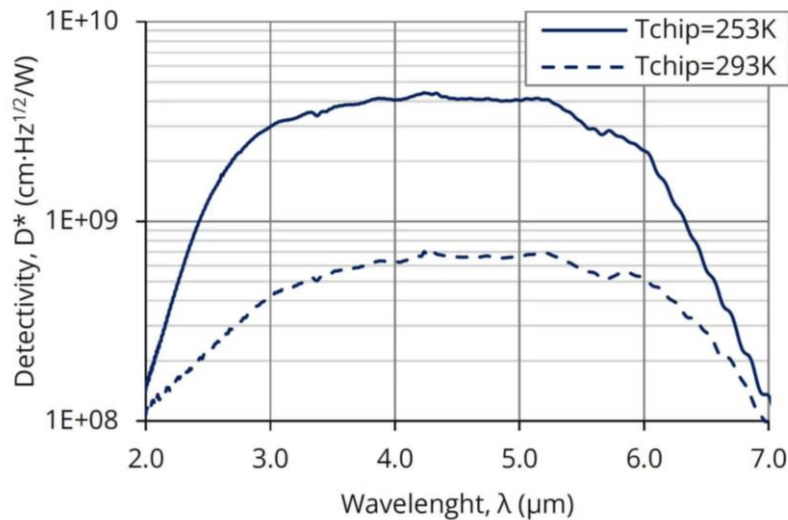
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Mechanical Dimensions (mm)



*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Typical Response



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Ordering Information

	6	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Prefix	Material Type	TEC Type	Integrated Chopper	Detector Size	Window	AR Coated	Driver
CPOD-	InAsSb = 6	1 stage 10°C = 1	Non = 1 Yes = 2	1mm = 1 3mm = 3 5mm = 5	Silicon = 1 Spectral Filter = S	Yes = 1 None = 2	No = 00 Yes = 11

Red is special order.

Application Notes