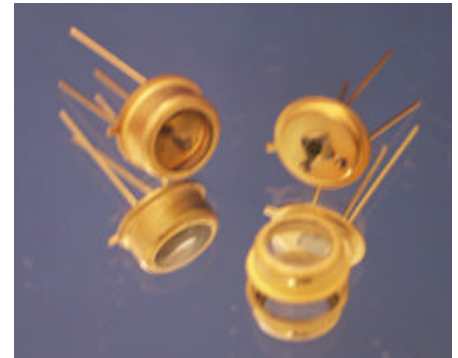


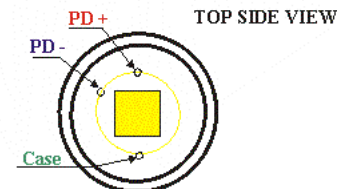
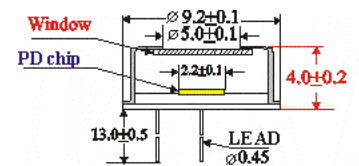
# PHOTO DIODES 2.4; 3.6 μm

## Model PD24-20 2.4 mm 2 mm

- Photodiodes **PD24-20** are designed for detecting the radiation in the Middle Infrared spectral range from 800 to 2400 nm. Heterostructures with the InGaAsSb active layer and the AlGaAsSb "window" are grown on GaSb substrates.
- Photodiodes **PD24-20** are mounted inside 9 mm package TO-5. They have the photosensitive area with diameter of 2 mm. Fast response makes possible their use for the detection of high frequency modulated laser or LED emission.
- Related products: **PD24-20** can be used in optical pair with our **LED16÷LED23** and **LD200÷LD230**. We offer the preamplifier model **AM-04** suitable for **PD24-20**.



Parameters	Min	Typ	Max
Cut-off wavelength, μm (at 10%)	2.38	2.40	2.41
Responsivity, A/W (λ=1.95÷2.1μm)	0.9	1.0	1.1
Dark Current, μA (V= -0.2 V)	50	100	200
	100	150	300
	150	200	400
Impedance, kOhm (V= -10 mV)	0,4	0,8	1,5
	800	1500	5000
Capacitance, pF (V=0, f=1 MHz)	800	1500	5000
Rise and Fall Time, ns (V=0, 50 Ohm)	100	150	500
Detectivity, cm.Hz <sup>1/2</sup> /W (λ <sub>p</sub> ,1000,1)	4.10 <sup>10</sup>	6.10 <sup>10</sup>	9.10 <sup>10</sup>
Operating Temperature Range, °C	-40÷+50		
Sensitive area diameter, mm	2		
Soldering temperature	260 °C		
Package	TO-18		



Package TO-5

