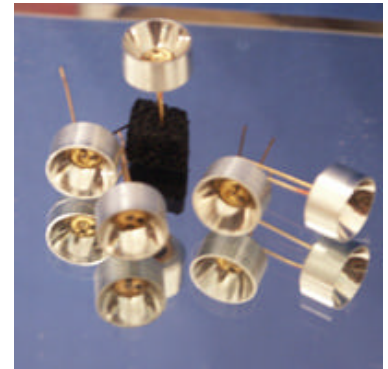


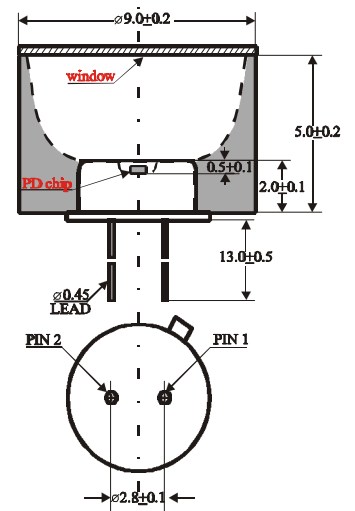
PHOTO DIODES 2.4; 3.6 μm

Model PD24-10-PR 2.4 mm 1.0 mm

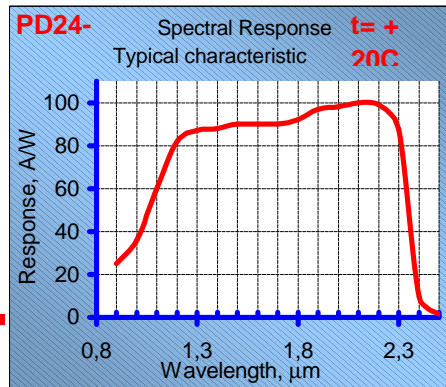
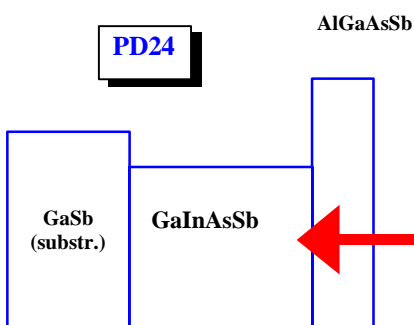
- Photodiodes **PD24-10-PR** are designed for detecting the radiation in the Middle Infrared spectral range from 800 to 2400 nm. Heterostructures with the InGaAsSb active layer and the AlGaAsSb "window" are grown on GaSb substrates.
- Photodiodes **PD24-10-PR** are mounted in standard 5.4 mm package TO-18 and equipped with parabolic reflector. They have the photosensitive area with diameter of 1 mm. Fast response makes possible their use for the detection of high frequency modulated laser or LED emission.
- Related products: **PD24-10-PR** can be used in optical pair with our **LED16÷LED23** and **LD200÷LD230**. We offer the preamplifier model **AM-04** suitable for **PD24-10**.



Package TO-18 with reflector



Parameters	Min	Typ	Max
Cut-off wavelength, μm (at 10%)	2.38	2.40	2.42
Responsivity, A/W ($\lambda=1.95 \div 2.1 \mu\text{m}$)	0.9	1.0	1.1
Dark Current, μA ($V = -0.2 \text{ V}$)	20	30	60
	30	40	100
	50	60	150
Impedance, kOhm ($V = -10 \text{ mV}$)	0,9	4	8
Capacitance, pF ($V=0, f=1 \text{ MHz}$)	500	1200	2000
Rise and Fall Time, ns ($V=0, 50 \text{ Ohm}$)	50	100	200
Detectivity, $\text{cm.Hz}^{1/2} / \text{W}$ ($\lambda_p, 1000, 1$)	3.10^{10}	5.10^{10}	8.10^{10}
Operating Temperature Range, $^{\circ}\text{C}$	-40 ÷ +50		
Sensitive area diameter, mm	1		
Soldering temperature	260 $^{\circ}\text{C}$		
Package	TO-18		



Basic Circuit Connections

