

InAsSb photodiode

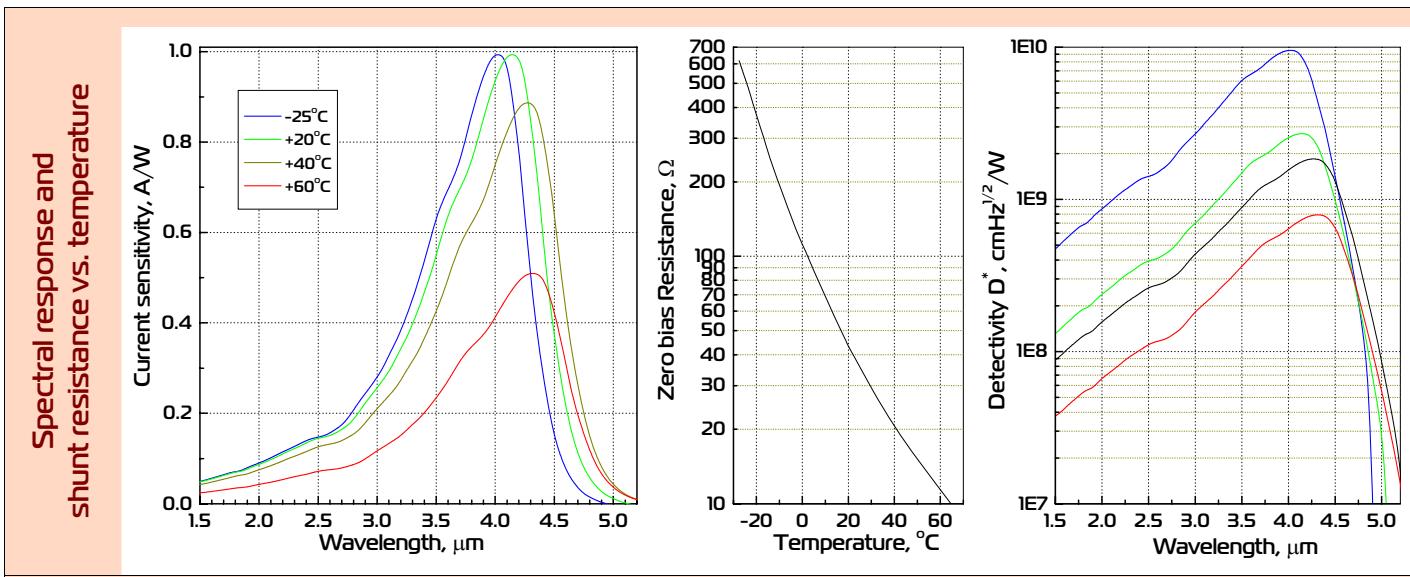
PD42fs mIL

Peak wavelength	λ	μm	4.15 ± 0.05
Spectral response range	$\lambda_{0.1}$	μm	$2.0 \div 4.7$
Current sensitivity	S_i	A/W	$0.8 \div 1.0$
Resistance at zero bias	R_0	Ohm	≥ 40
Detectivity	$D^*_{\lambda_{\max}}$	$\text{cmHz}^{1/2}\text{W}^{-1}$	$\geq 3 \times 10^9$
Voltage sensitivity	S_u	V/W	≥ 40
Switching time	τ	ns	$< 50^*$

* - according estimation

Model	Package	Lens material; Cap with window	Sensitive area, mm	Angle of view FWHM, deg.	Operation conditions, °C	Polarity
PD42fs mILTO18	TO18	Chalcogenide glass	$\emptyset 1.0$	≥ 60	-25 \div +60	Leg near key is negative
PD42fs mILTO18c	TO18	Chalcogenide glass; Sapphire		50		

Product view	PD42fs mILTO18	PD42fs mILTO18c
		
Features	Growth of narrow gap semiconductor alloys onto n ⁺ -InAs substrate; "Wide gap" window; Optical coupling through the use of chalcogenide glass lenses	Ambient and high temperature operation; No bias required; Short time constant; High value of shunt resistance; Operation from DC to VHF; Highest long term stability
	Data are valid for 22°C. Photodiode could be equipped with preamplifier that is designed for conversion of PD photocurrent into a convenient output voltage and is adjusted for the particular PD taking into account the R ₀ value and frequency range. Other packages are available upon request	



Product specifications are subject to change without prior notice due to improvements or other reasons. Updated 23.10.12



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