InAsSb photodiode — PD53fsi series

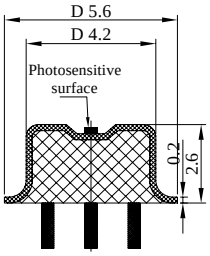
Peak wavelength	λ	μm	5.2±0.1
Spectral response range	$\lambda_{0.1}$	μm	1.8÷5.8
Current sensitivity	S_I	A/W	≥0.3
Resistance at zero bias	R_0	Ohm	≥1.5
Detectivity	$D^*_{\lambda max}$	$cmHz^{1/2}W^{-1}$	$\geq 1\times10^8$
Voltage sensitivity	S_U	V/W	≥0.45
Switching time	τ	ns	<50*

* - according estimation

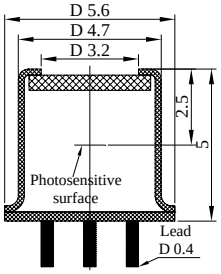
Model	Package	Cap with window	Sensitive area, mm	Angle of view FWHM, deg.	Operation conditions, °C	Polarity
PD53fsiTO18	TO18 (TO46)	-	0.33×0.33	140	-25÷+60	Short leg is negative
PD53fsiTO18c	TO18 (TO46)	Sapphire		50		
PD53fsiTO39c	TO39	Sapphire		90		

Product view

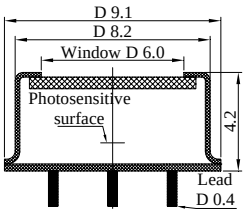
PD53fsiTO18



PD53fsiTO18c



PD53fsiTO39c



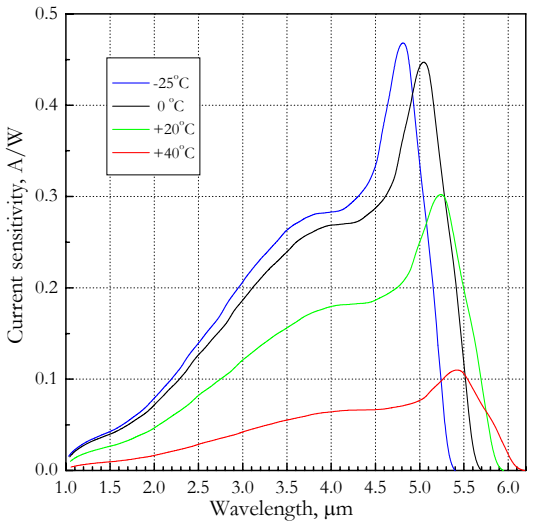
Features

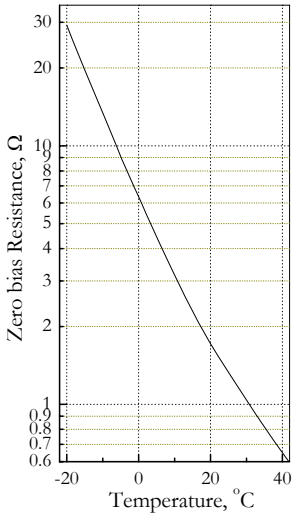
Growth of narrow gap semiconductor alloys onto n^+-InAs substrate; "Wide gap" window

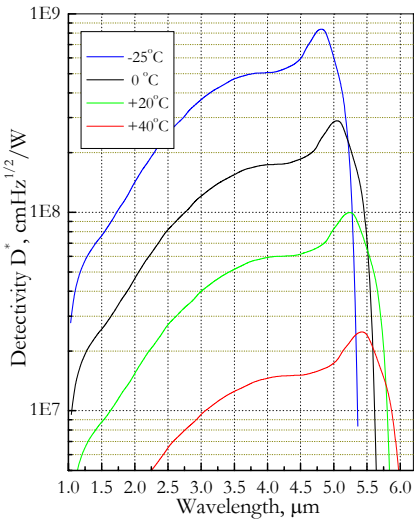
Ambient and high temperature operation; No bias required; Short time constant; Operation from DC to VHF; Highest long term stability

Data are valid for 22ºC. 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 Ro value and frequency range. Other packages are available upon request

Spectral response and shunt resistance vs. temperature







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