

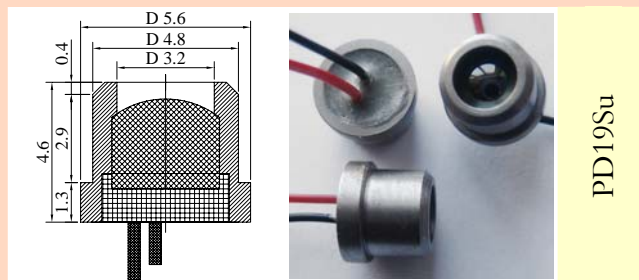
Optically Immersed 5.5 μm Photodiode

PD55Su, PD55Sr

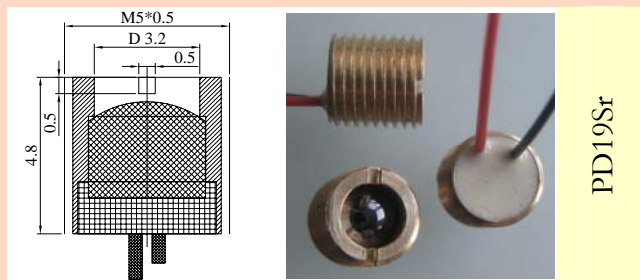
Peak wavelength	λ_{max}	μm	5.3÷5.5
Current sensitivity	S_I	A/W	≥ 0.3
Shunt Resistance	R_0	Ohm	2÷3
Detectivity	$D^*_{\lambda_{max}}$	$\text{cmHz}^{1/2}\text{W}^{-1}$	$(0.9\div 1.1)\times 10^9$
Switching time	τ	ns	≤ 20

Model	Sensitive area, mm	Lens material	Field of view, deg.	Optical axis deviation, deg.	Operation conditions, °C	Lifetime, hrs	Polarity
PD55Su/Sr	$\varnothing 3.2$	Si	~15	≤ 5	-25÷+60	>80 000	Red wire (red point on house) – positive, Black or/and short wire– negative

Product view



PD19Su



PD19Sr

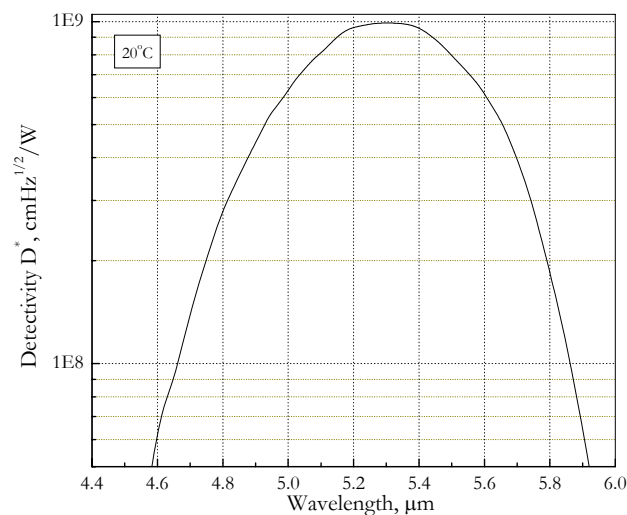
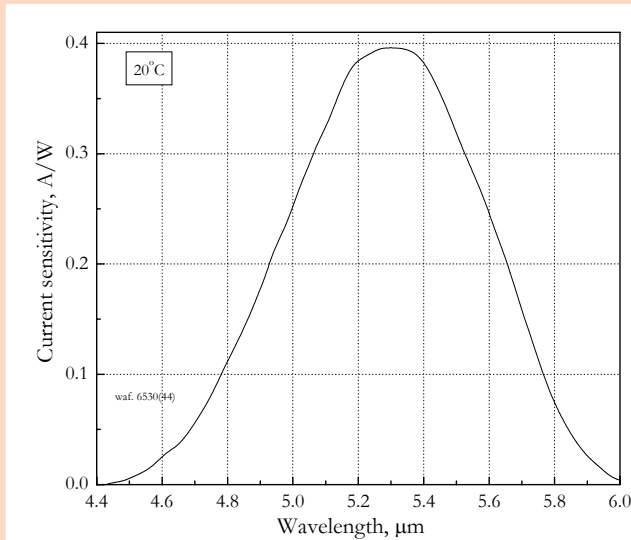
Features

Growth of narrow gap semiconductor alloys onto n⁺-InAs substrate; Back side illuminated Flip-chip design of PDs; Optical coupling through the use of chalcogenide glasses and Si lenses with antireflection coating

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

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 R₀ value and frequency range. Other packages are available upon request. Angle of view is small and thus we recommend adjusting PD position regarding to the emission system before final evaluation/use of the devices.

Spectral response and shunt resistance vs. temperature



Product specifications are subject to change without prior notice due to improvements or other reasons. Updated 3.11.11



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