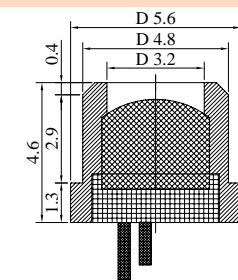
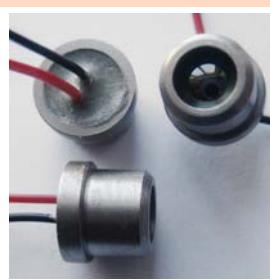
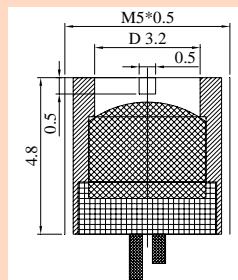
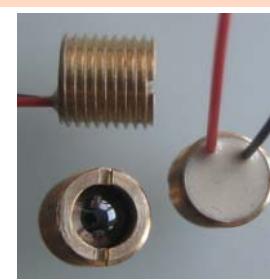


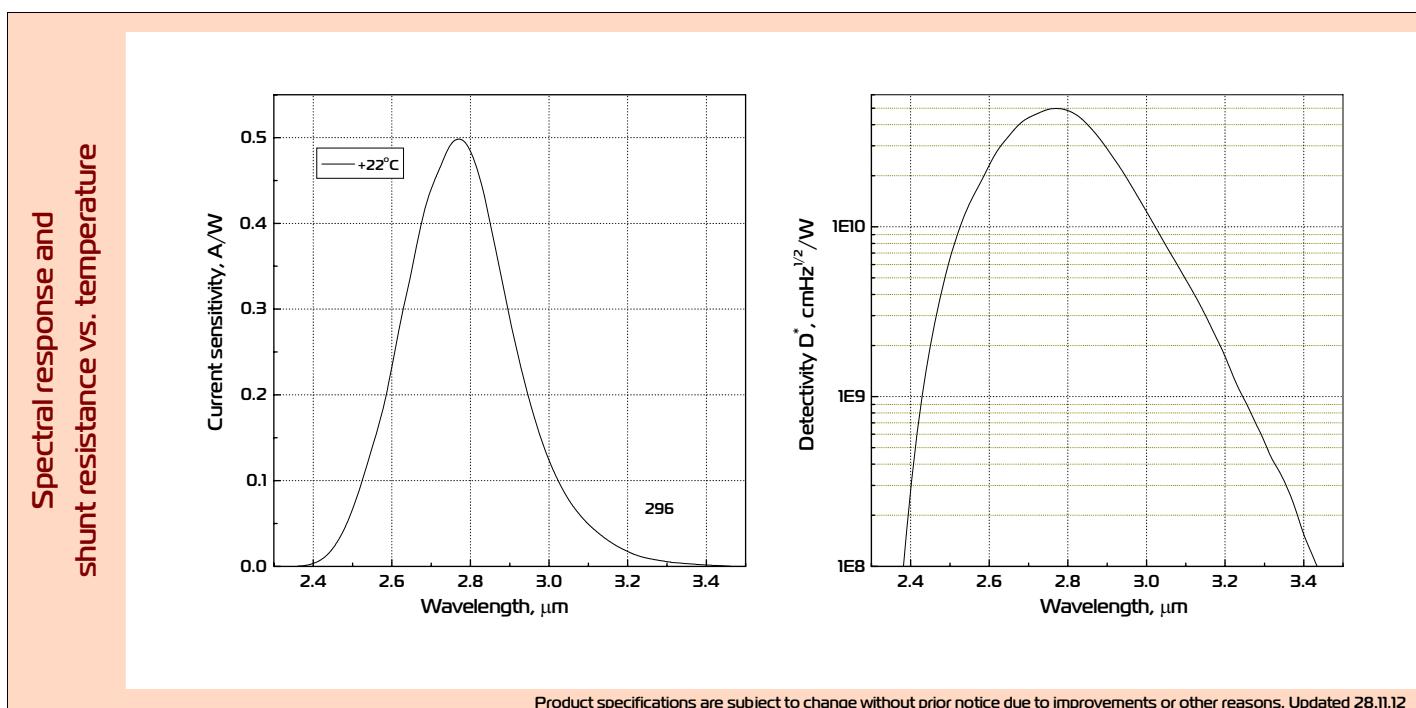
Optically Immersed 2.7 μm Photodiode

PD27Su, PD27Sr

Peak wavelength	λ_{\max}	μm	2.75 ± 0.05
Current sensitivity	S_i	A/W	≥ 0.5
Shunt Resistance	R_o	Ohm	≥ 1000
Detectivity	$D^*_{\lambda_{\max}}$	$\text{cmHz}^{1/2}\text{W}^{-1}$	$\geq 5 \times 10^{10}$
Voltage sensitivity	S_u	V/W	≥ 500
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
PD27Su/Sr	$\varnothing 3.2$	Si	~ 15	≤ 5	-25 \div +80	>80 000	Red wire or long wire (and red point on house) – positive

Product view			PD27Su			PD27Sr
	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 R _o 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.						



Product specifications are subject to change without prior notice due to improvements or other reasons. Updated 28.11.12



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