

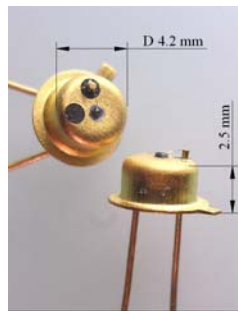
Specifications ($T=22\text{ }^{\circ}\text{C}$)

Photodiodes			PD27fsi		
Photodiode category			A	B	C
Peak wavelength	λ	μm	2.7		
Cutoff wavelength (10 %)	λ_{co}	μm	3.1÷3.2		
Spectral width	FWHM	μm	1.0÷1.2		
Detectivity	$D^*_{\lambda_{\text{max}}}$	$\text{cmHz}^{1/2}\text{W}^{-1}$	$(3.3\div 4.2)\times 10^9$	$(4.2\div 6)\times 10^9$	$(6\div 8.5)\times 10^9$
Current sensitivity	S_I	A/W	≥ 0.6		
Voltage sensitivity	S_U	V/W	180÷300	300÷600	600÷1200
Resistance at zero bias	R_0	Ohm	0.3÷0.5 k	0.5÷1 k	1÷2 k
Temperature shift of the spectral sensitivity	$d\lambda_{\text{max}}/dT$	$\text{nm}/^{\circ}\text{C}$	2.5		

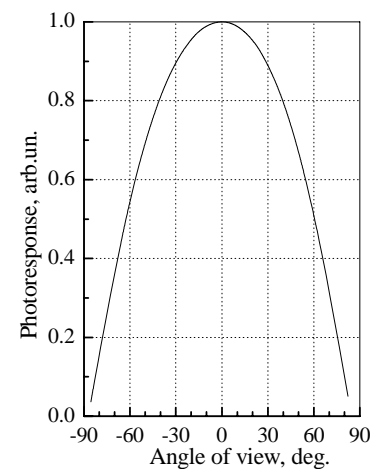
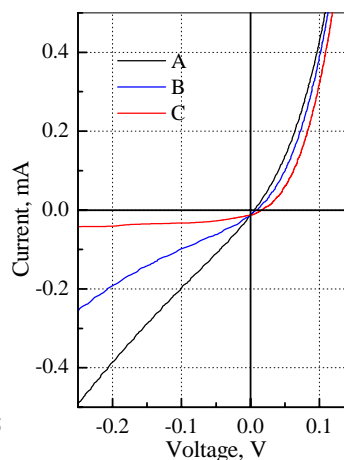
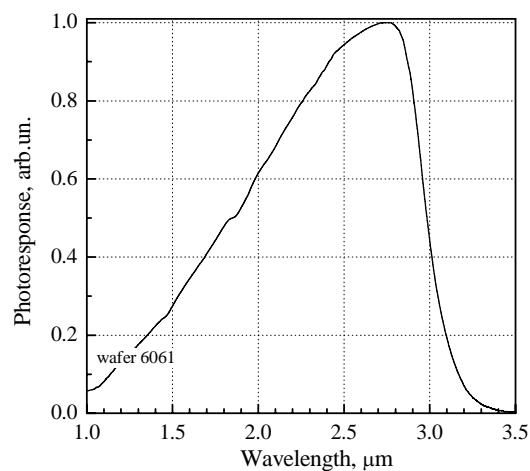
House

House code	Sensitive area, μm	Angle of view FWHM, deg.	Operation / storage conditions, $^{\circ}\text{C}$	Polarity
TO-18	400×400	140	-25÷+60	short leg or key is negative

Package photo



Spectral sensitivity, current-voltage curve and angle of view



PD could be equipped with preamplifier. Preamplifier has been designed for conversion of PD photocurrent into a convenient output voltage. Normally each preamplifier is adjusted for the particular PD and specifications issued by a customer (e.g. taking into account the R_0 value and frequency range).