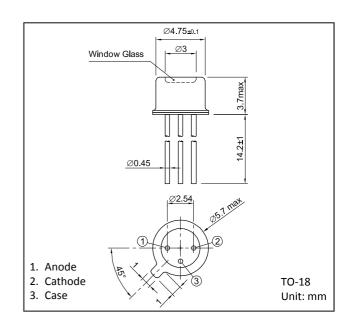
Features

- Large active area convenient for optical coupling
- Low dark current
- Respond to 1310, C-band and L-Band
- Hermetic seal
- High reliability

Applications

- Near infrared sensors
- Laser diode and LED power monitors
- Near Infrared spectroscopy
- · Optical measurement and sensing



Absolute Maximum Ratings

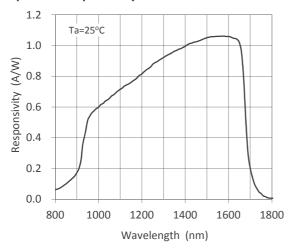
Parameter	Symbol	Value	Unit	Note
Reverse voltage	V_R	20	٧	
Maximum optical power input	P _{i max}	30	mW	
Forward current	I _F	50	mA	
Operating temperature	T _{opr}	-40 to +85	°C	Avoid dew condensation
Storage temperature	T _{stp}	-40 to +85	°C	Avoid dew condensation

Electrical and Optical Characteristics (Ta=25°C unless otherwise noted)

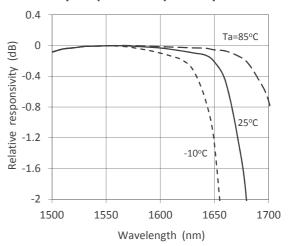
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test condition
Active diameter	D		300		μm	
Bandwidth	BW	400	600	-	MHz	Pi=-10dBm, V _R =5V,
	DVV					Small signal modulation
Responsivity	D	0.8	0.9	-	A/W	λ =1310nm, V_R =5V
	R	0.9	1.0	-		λ =1550nm, V_R =5V
Dark current	I _D	-	100	600	рА	V _R =5V
Chip capacitance	C _{chip}	-	4	6	pF	V _R =5V, f=1MHz
Total capacitance	C _t	-	4	6	pF	V _R =5V, f=1MHz
Responsivity uniformity	Δ R	-	-	0.5	dB	λ=1530-1610nm,
						T _{op} =-10 to +85°C

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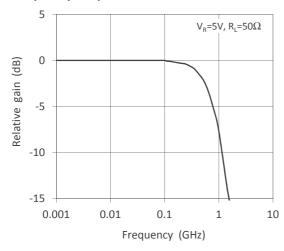
Spectral Responsivity



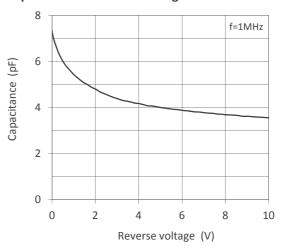
Uniformity of Spectral Responsivity



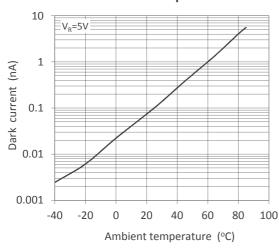
Frequency Response



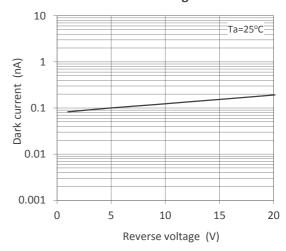
Capacitance - Reverse Voltage



Dark Current - Ambient Temperature

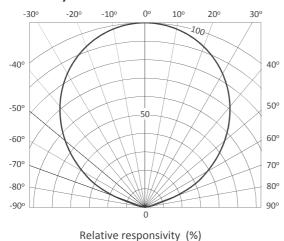


Dark Current - Reverse Voltage



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Directivity



- > Specifications, characteristics, data, materials, structures specified in this datasheet are subject to change without notice. Please refer to the latest specification before use of the products.
- > Products listed in this datasheet comply with the RoHS Directive (EU2002/95/EC).

Opto-technologies for the Future



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