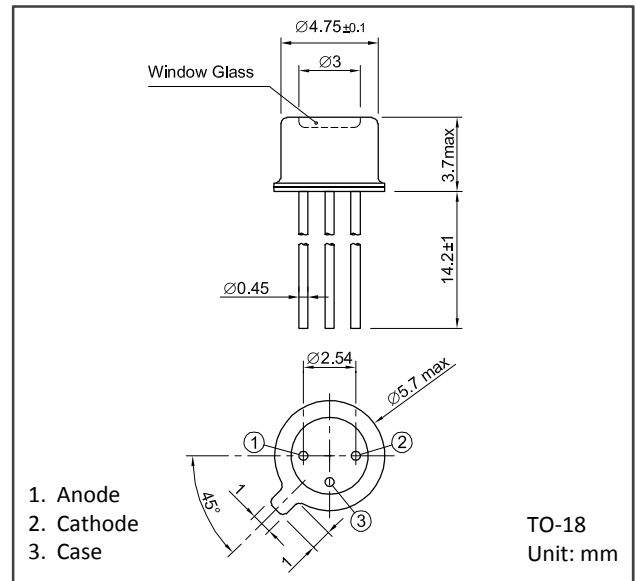


Features

- Cutoff wavelength 2600nm
- Much higher responsivity and speed than conventional near infrared (NIR) detectors
- Operable with the photovoltaic mode under zero bias or low reverse bias mode

Applications

- Gas analyzers
- Water content analyzers
- Hydrocarbon sensors
- NIR spectroscopy
- Radiometry
- Power meters

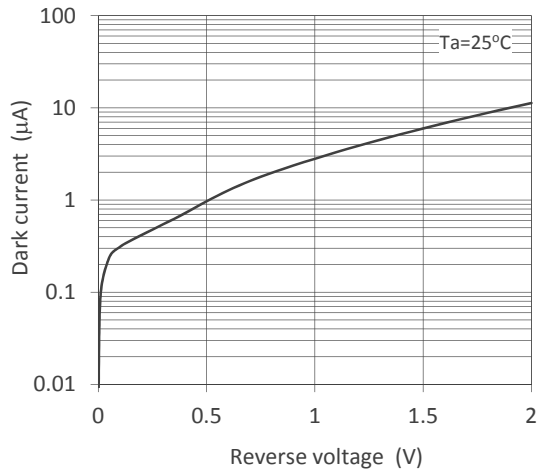
**Absolute Maximum Ratings**

Parameter	Symbol	Value	Unit	Note
Forward current	I_F	10	mA	
Reverse voltage	V_R	2	V	
Reverse current	I_R	2	mA	
Operating temperature	T_{opr}	-40 to +85	°C	Avoid dew condensation
Storage temperature	T_{stg}	-55 to +125	°C	Avoid dew condensation
Soldering temperature	T_{sol}	260	°C	Max 5 sec.

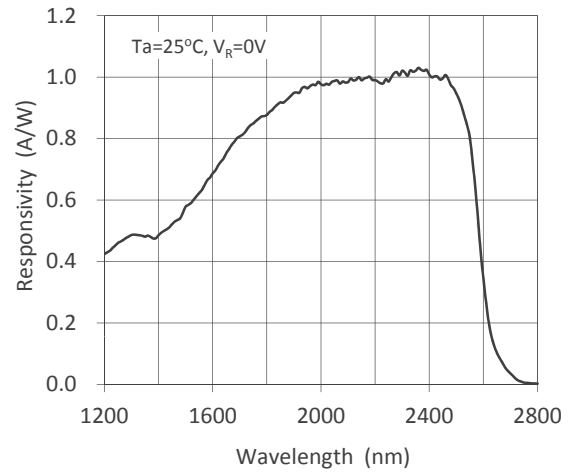
Electrical and Optical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Active diameter	D	300			μm	
Sensitive wavelength range	λ	1200 – 2600			nm	
Peak sensitive wavelength	λ_p	-	2300	-	nm	
Responsivity	R	-	1.0	-	A/W	$V_R=0V, \lambda=1950nm$
Dark current	I_D	-	3	-	μA	$V_R=1V$
Bandwidth	BW	-	120	-	MHz	$V_R=1V, R_L=50\Omega$
Terminal capacitance	C_t	-	17	-	pF	$V_R=1V, f=1MHz$

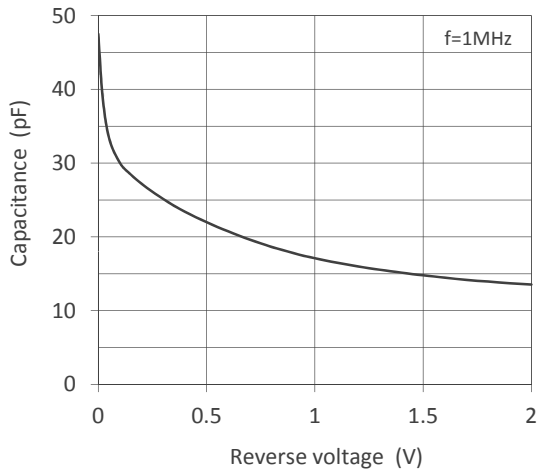
Dark Current - Reverse Voltage



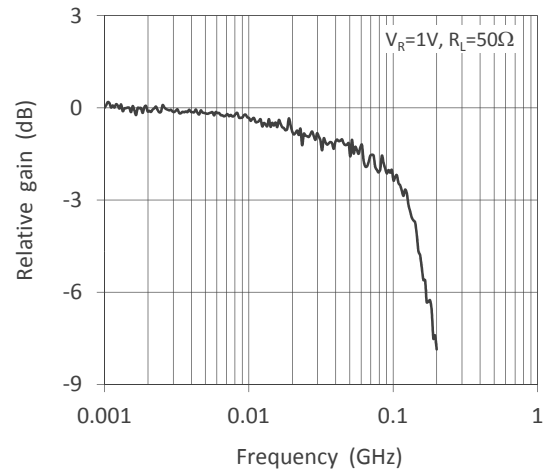
Spectral Responsivity



Capacitance - Reverse Voltage



Frequency Response



- 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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