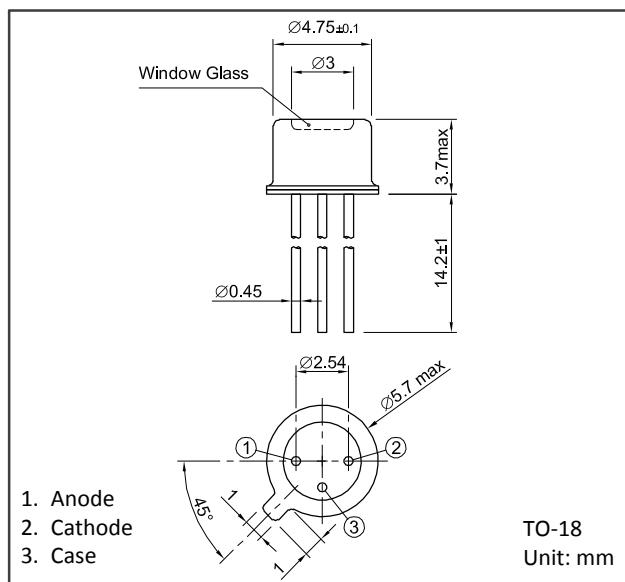


Features

- 0.86mm sq. large sensitive area
- Low dark current
- Low voltage operation
- Hermetic seal

Applications

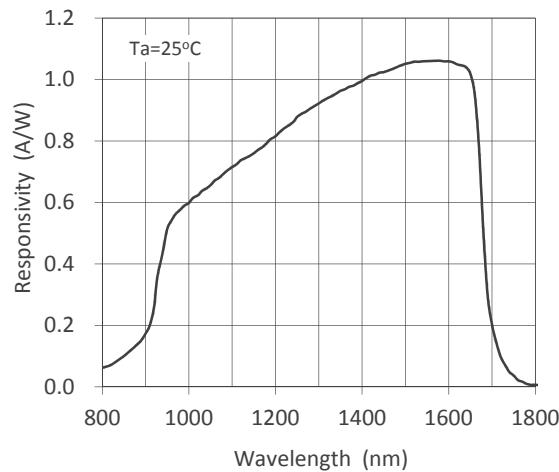
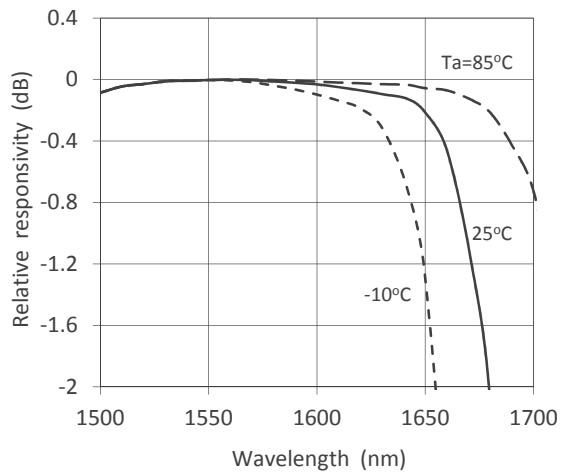
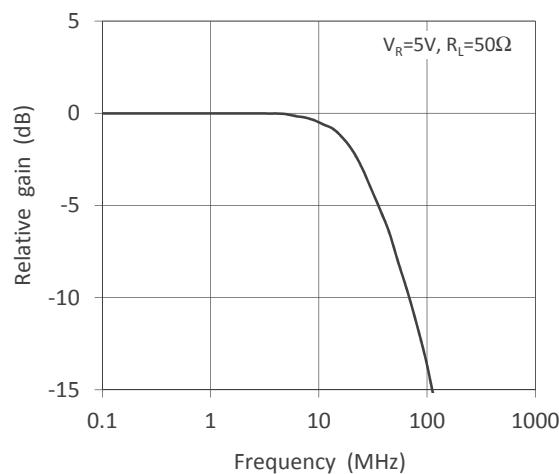
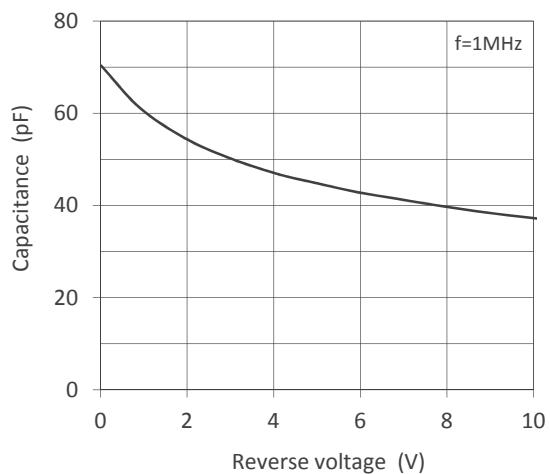
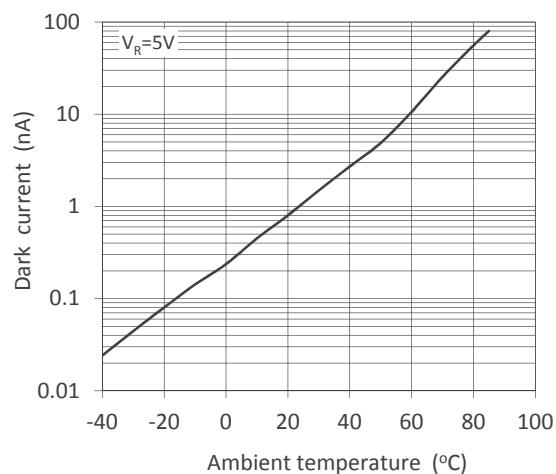
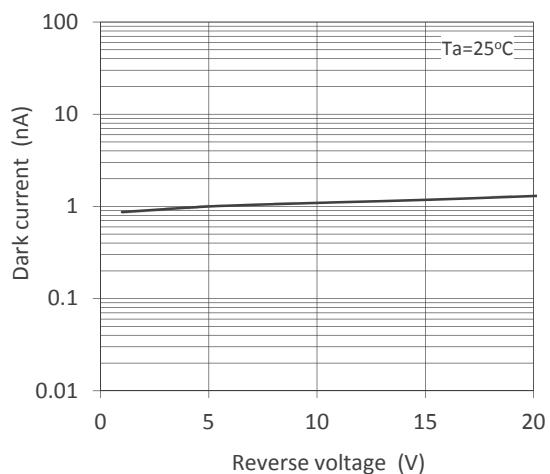
- Near infrared sensors
- Laser diode and LED power monitors
- Near infrared spectroscopy
- Power meters

**Absolute Maximum Ratings**

Parameter	Symbol	Value	Unit	Note
Reverse voltage	V_R	20	V	
Maximum optical power input	$P_{i\max}$	50	mW	
Forward current	I_F	50	mA	
Operating temperature	T_{opr}	-40 to +85	°C	Avoid dew condensation
Storage temperature	T_{stg}	-40 to +85	°C	Avoid dew condensation

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Active area	S	0.86 x 0.86			mm ²	
Bandwidth	BW	-	30	-	MHz	$P_i=-10\text{dBm}$, $V_R=5\text{V}$, Small signal modulation
Responsivity	R	0.7	0.8	-	A/W	$\lambda=1310\text{nm}$, $V_R=5\text{V}$
		0.8	0.9	-		$\lambda=1550\text{nm}$, $V_R=5\text{V}$
Dark current	I_D	-	1	10	nA	$V_R=5\text{V}$
Chip capacitance	C_{chip}	-	45	60	pF	$V_R=5\text{V}$, f=1MHz
Total capacitance	C_t	-	45	60	pF	$V_R=5\text{V}$, f=1MHz
Responsivity uniformity	ΔR	-	-	0.5	dB	$\lambda=1530-1610\text{nm}$, $T_{op}=-10$ to +85°C

Spectral Responsivity**Uniformity of Spectral Responsivity****Frequency Response****Capacitance - Reverse Voltage****Dark Current - Ambient Temperature****Dark Current - Reverse Voltage**

- 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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