

Features

- Low capacitance and high speed with a PIN structure
- Low dark current
- Low voltage operation
- High reliability
- Pigtail type available as an option

Applications

- Digital and analog optical communications
- Optical LAN
- OTDR

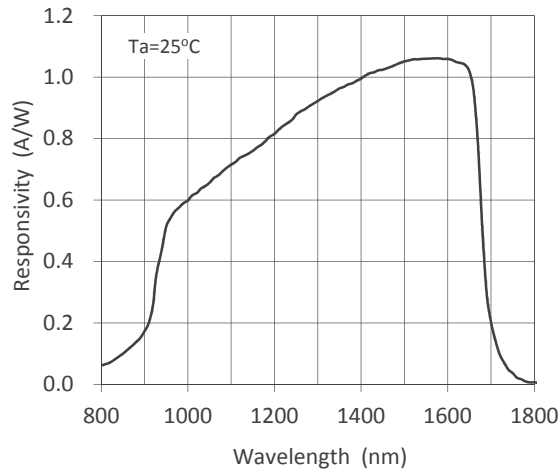
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Note
Reverse voltage	V_R	20	V	
Maximum optical power input	$P_{i,max}$	10	mW	
Forward current	I_F	10	mA	
Operating temperature	T_{opr}	-40 to +85	°C	Avoid dew condensation
Storage temperature	T_{stg}	-40 to +85	°C	Avoid dew condensation

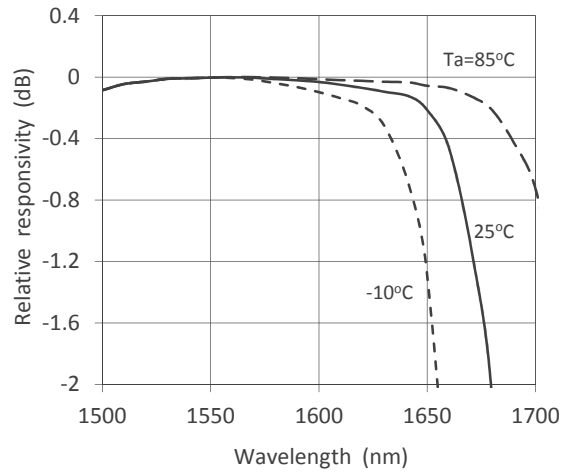
Electrical and Optical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Active diameter	D	60			μm	
Bandwidth	BW	-	3.0	-	GHz	$P_i=-10\text{dBm}$, $V_R=5\text{V}$, Small signal modulation
Responsivity	R	0.8	0.9	-	A/W	$\lambda=1310\text{nm}$, $V_R=5\text{V}$
		0.9	1.0	-		$\lambda=1550\text{nm}$, $V_R=5\text{V}$
Dark current	I_D	-	30	120	pA	$V_R=2\text{V}$
Chip capacitance	C_{chip}	-	0.45	0.60	pF	$V_R=5\text{V}$, $f=1\text{MHz}$
Total capacitance	C_t	-	0.75	0.90	pF	$V_R=5\text{V}$, $f=1\text{MHz}$
Responsivity uniformity	ΔR	-	-	0.5	dB	$\lambda=1530\text{-}1610\text{nm}$, $T_{op}=-10$ to $+85^\circ\text{C}$

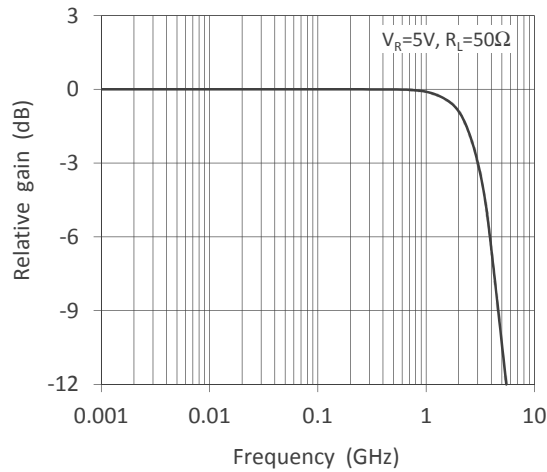
Spectral Responsivity



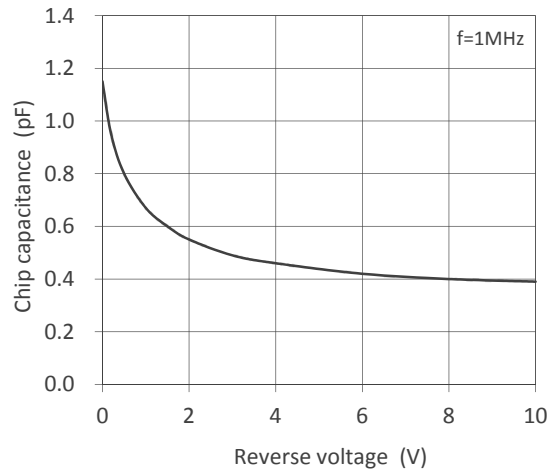
Uniformity of Spectral Responsivity



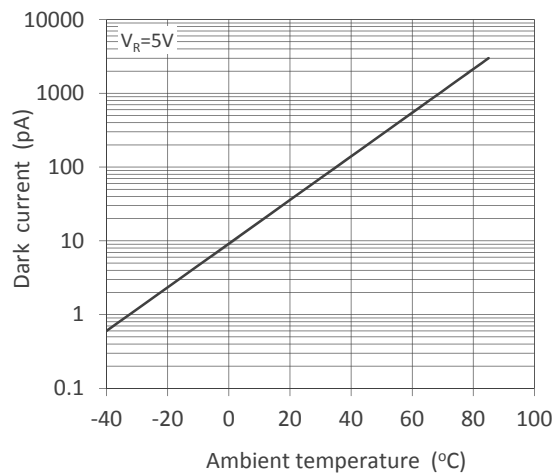
Frequency Response



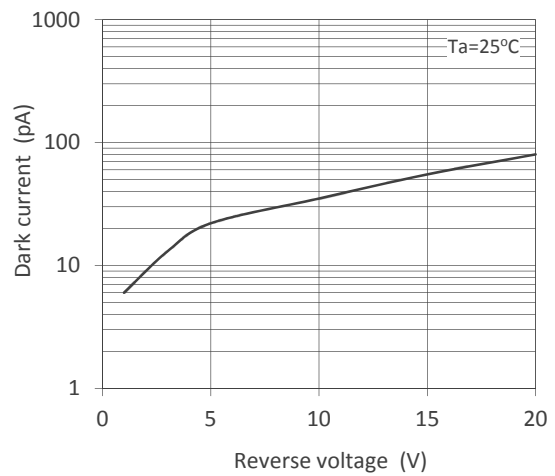
Capacitance - Reverse Voltage



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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