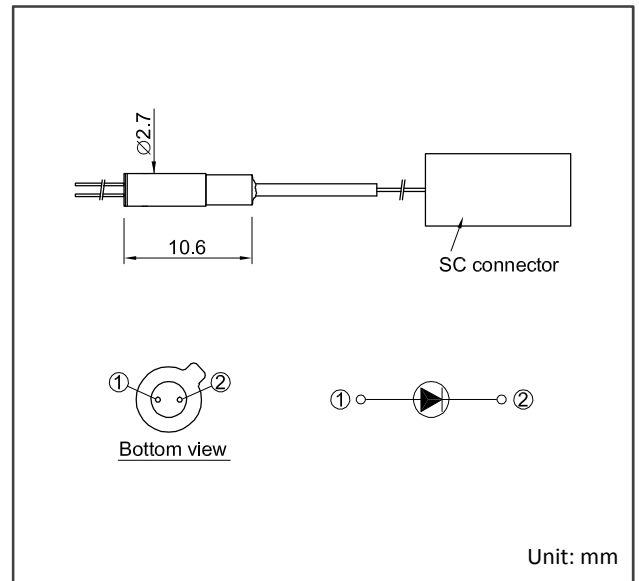


Features

- High density packaging of multiple PD channels
- Low capacitance and high speed with a PIN structure
- Low dark current
- High reliability

Applications

- Optical power monitor for WDM
- DWDM system
- Digital optical communications



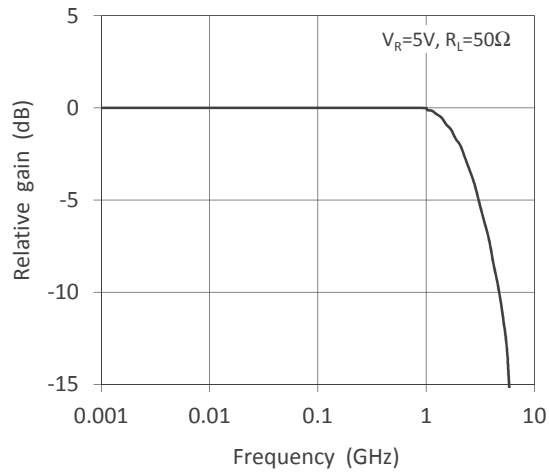
Absolute Maximum Ratings

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

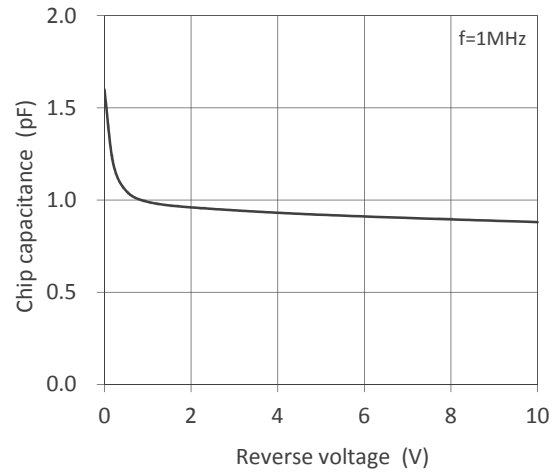
Electrical and Optical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Active diameter	D	80			μm	
Bandwidth	BW	1.0	2.0	-	GHz	$P_i = -10\text{dBm}$, $V_R = 5\text{V}$, Small signal modulation
Responsivity	R	0.8	0.85	-	A/W	$\lambda = 1310\text{nm}$, $V_R = 5\text{V}$
		0.85	0.98	-		$\lambda = 1550\text{nm}$, $V_R = 5\text{V}$
Dark current	I_D	-	30	160	pA	$V_R = 5\text{V}$
Total capacitance	C_t	-	0.91	1.1	pF	$V_R = 5\text{V}$, $f = 1\text{MHz}$

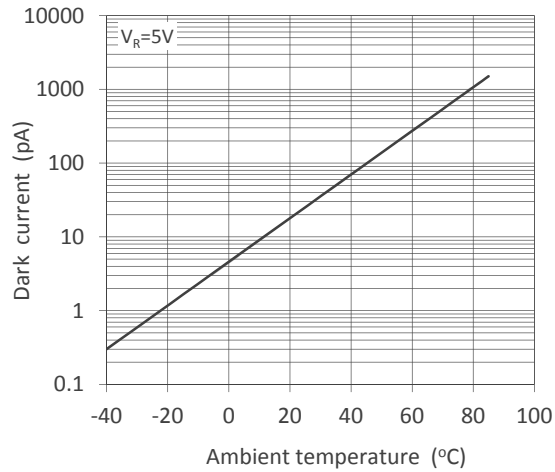
Frequency Response



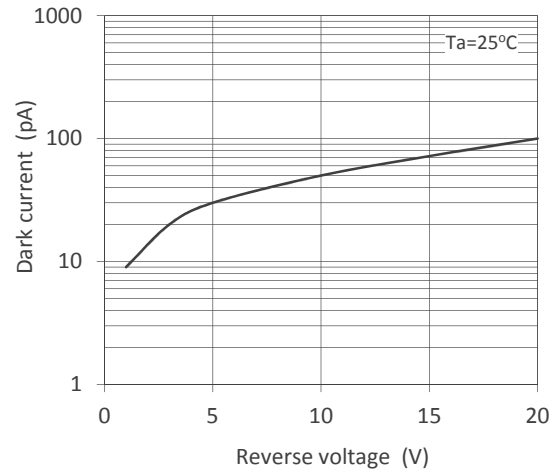
Capacitance - Reverse Voltage



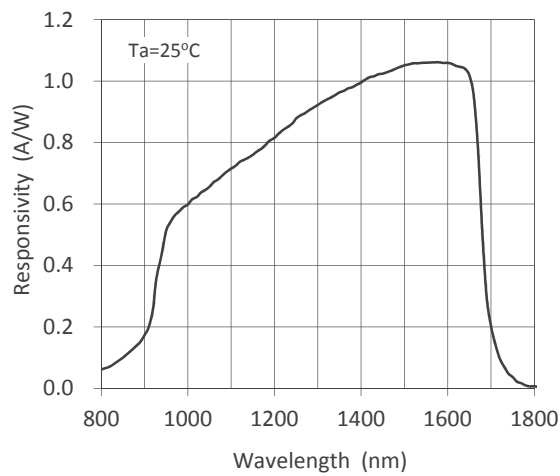
Dark Current - Ambient Temperature



Dark Current - Reverse Voltage



Spectral Responsivity



- 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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