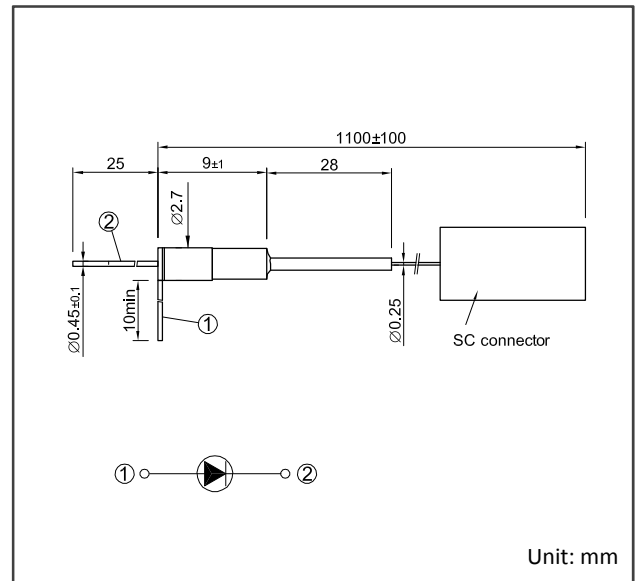
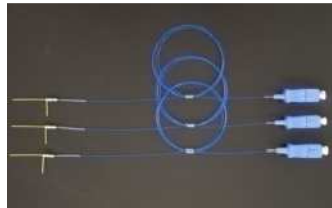


## Features

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

## Applications

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



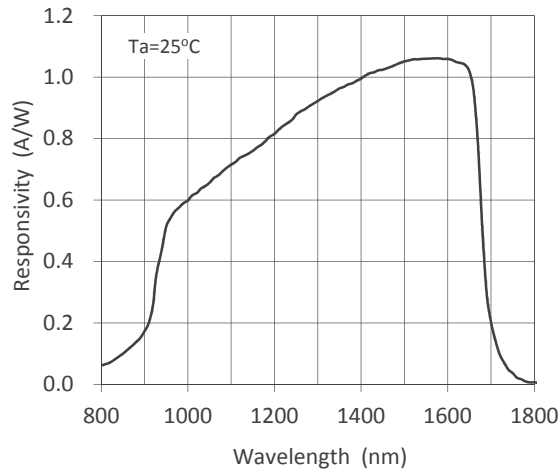
## Absolute Maximum Ratings

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

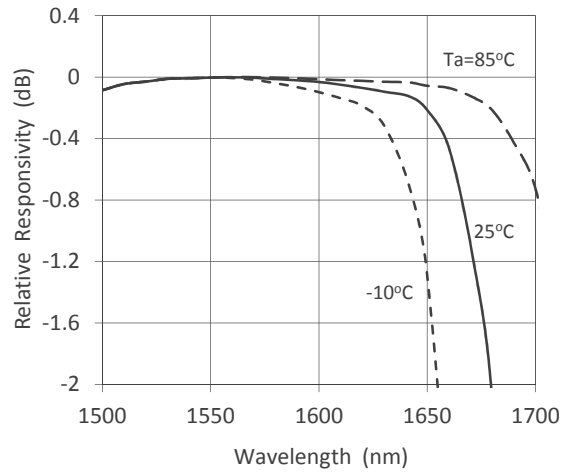
## Electrical and Optical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Active diameter	D	300			μm	
Bandwidth	BW	400	600	-	MHz	$P_i = -10\text{dBm}$ , $V_R = 5\text{V}$ , 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	$I_D$	-	100	600	pA	$V_R = 5\text{V}$
Total capacitance	$C_t$	-	4	6	pF	$V_R = 5\text{V}$ , $f = 1\text{MHz}$
Responsivity uniformity	$\Delta R$	-	-	0.5	dB	$\lambda = 1530\text{-}1610\text{nm}$ , $T_{op} = -10$ to $+85^\circ\text{C}$

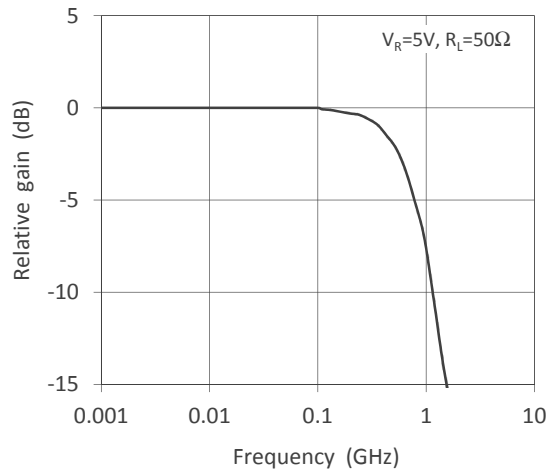
**Spectral Responsivity**



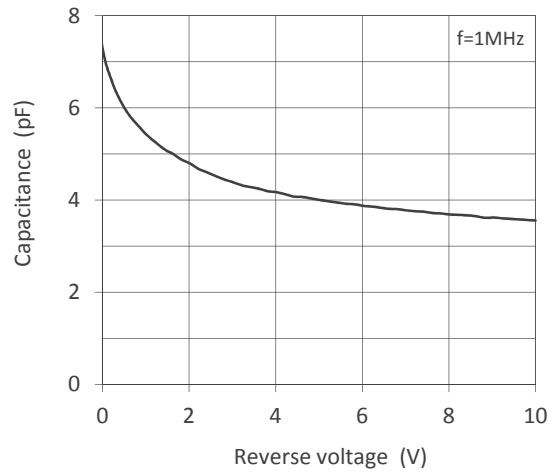
**Uniformity of Spectral Responsivity**



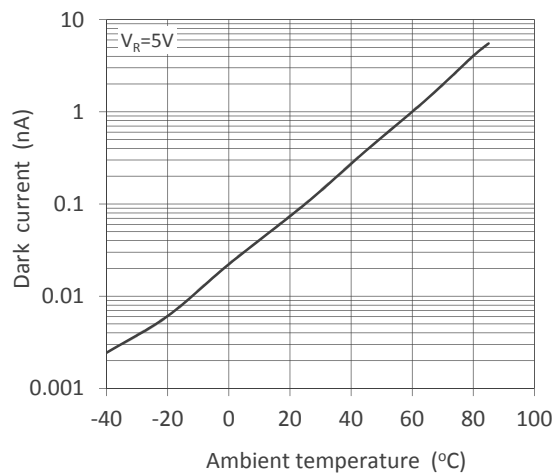
**Frequency Response**



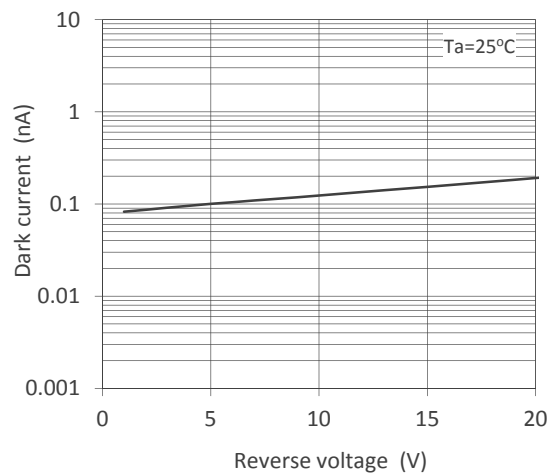
**Capacitance - Reverse Voltage**



**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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