

Features

- Large active area convenient for optical coupling
- Wide detectable wavelength (O-, E-, S-, C-, L-Band)
- Wide dynamic range
- Low dark current
- Low PDL
- High reliability

Applications

- DWDM monitoring and control
- Laser diode and LED power monitors
- Power meters
- Optical measurement and sensing

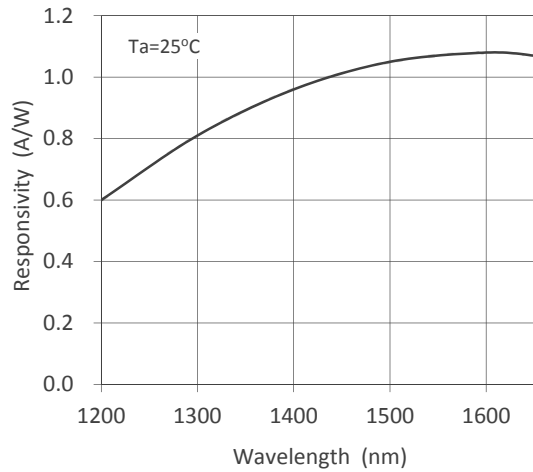
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Note
Reverse voltage	V_R	20	V	
Maximum optical power input	$P_{i,max}$	30	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

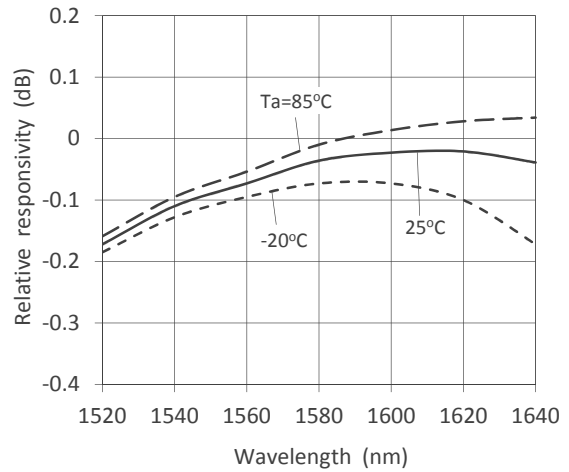
Electrical and Optical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Active 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	$V_R=5\text{V}$
Chip capacitance	C_{chip}	-	4	6	pF	$V_R=5\text{V}$, $f=1\text{MHz}$
Total capacitance	C_t	-	4	6	pF	$V_R=5\text{V}$, $f=1\text{MHz}$
Responsivity uniformity	ΔR	-0.2	-	0.25	dB	$\lambda=1525-1610\text{nm}$, $T_{op}=-10$ to $+85^\circ\text{C}$

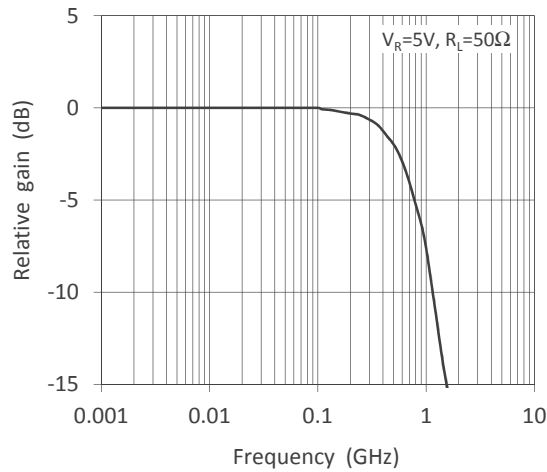
Spectral Responsivity



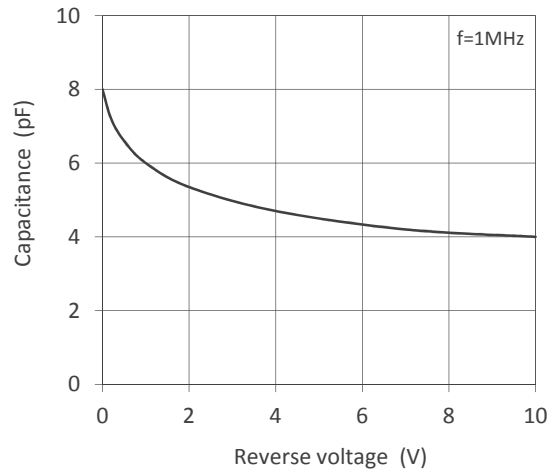
Uniformity of Spectral Responsivity



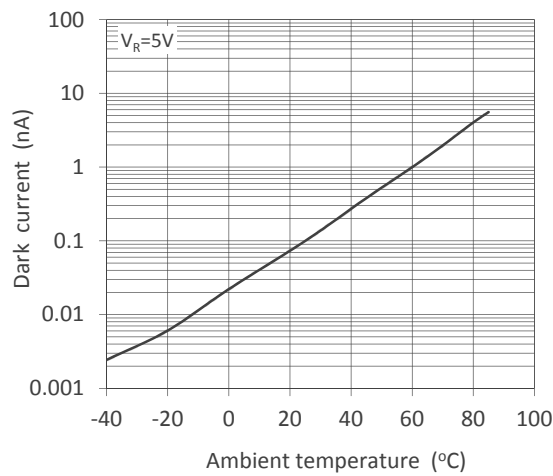
Frequency Response



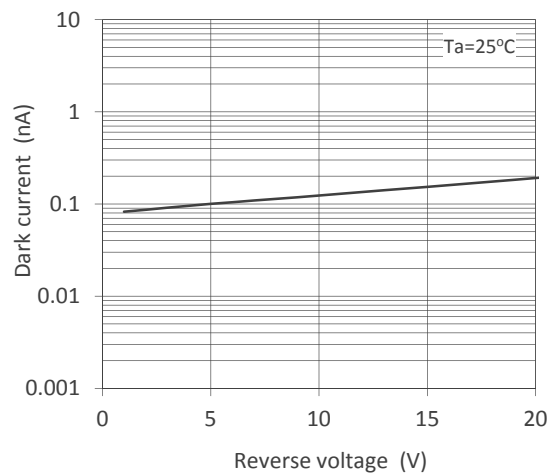
Capacitance - Reverse Voltage



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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