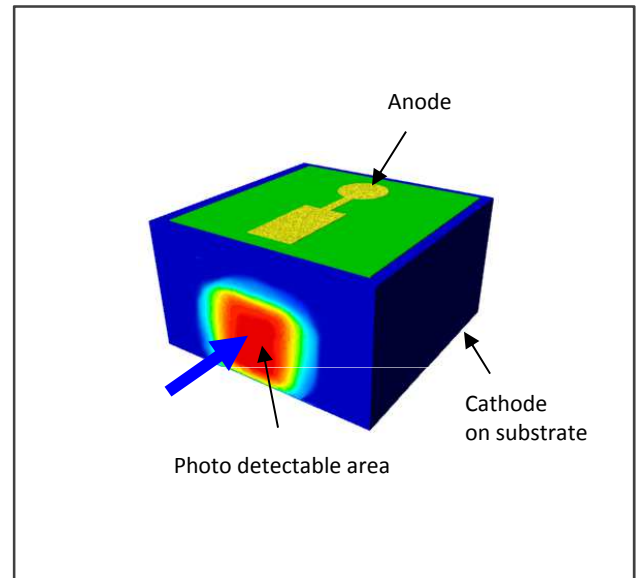


Features

- Edge illuminated type for surface hybrid integration
- Large aperture (100x120 μm)
- Low dark current
- High reliability

Applications

- Laser back light power monitors
- Optical interconnection
- FTTH digital optical communications

**Absolute Maximum Ratings**

Parameters	Symbol	Value	Unit	Note
Reverse voltage	V_R	20	V	
Maximum optical power input	P_{imax}	10	mW	
Forward current	I_F	10	mA	
Operating temperature	T_{opr}	-40 to +85	$^{\circ}\text{C}$	Avoid dew condensation
Storage temperature	T_{stg}	-40 to +85	$^{\circ}\text{C}$	Avoid dew condensation

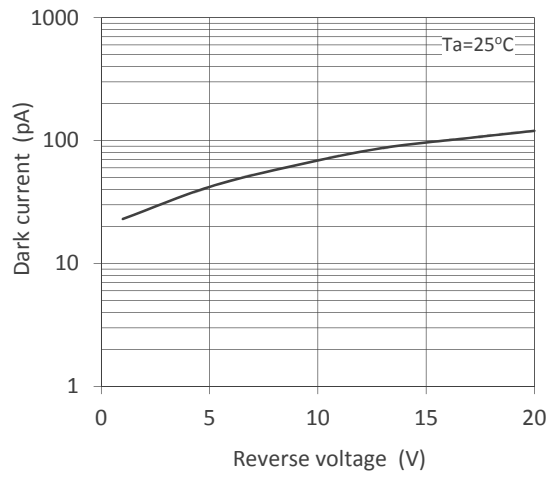
Electrical and Optical Characteristics ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Bandwidth	BW	0.8	1.5	-	GHz	$P_i=-10\text{dBm}$, $V_R=5\text{V}$, Small signal modulation
Responsivity	R	0.5	0.55	-	A/W	$\lambda=1310\text{nm}$, $P_i=-10\text{dBm}$, $V_R=5\text{V}$
		0.65	0.75	-		$\lambda=1550\text{nm}$, $P_i=-10\text{dBm}$, $V_R=5\text{V}$
Dark current	I_D	-	50	300	pA	$V_R=5\text{V}$
Chip capacitance	C_{chip}	-	2	5	pF	$V_R=5\text{V}$, $f=1\text{MHz}$

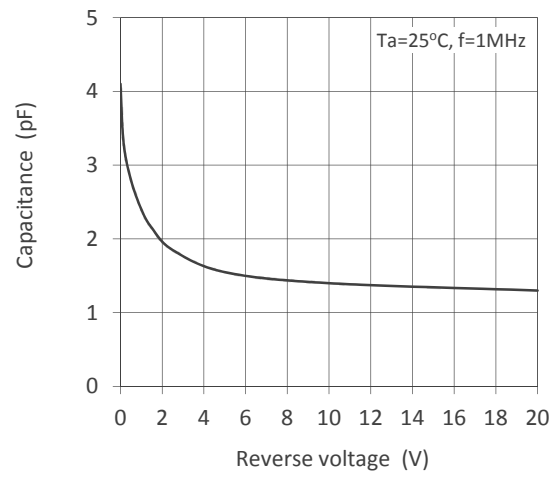
Die dimension

Parameter	Specification	Tolerance	Unit
Chip size	450 x 450	± 25	μm
Chip height	250	± 20	
Photo detectable area	100 x 120	± 10	

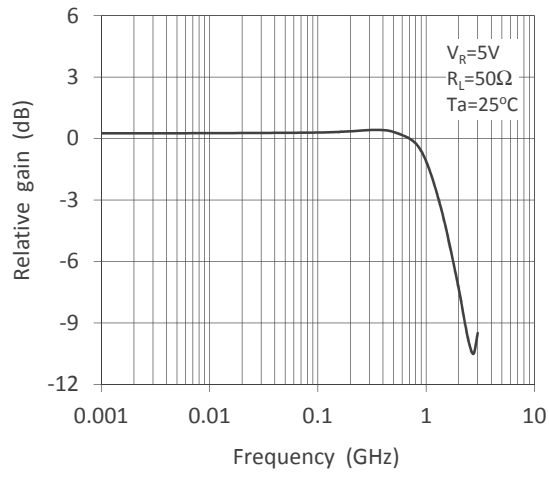
Dark Current - Reverse Voltage



Capacitance - Reverse Voltage



Frequency Response



- 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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