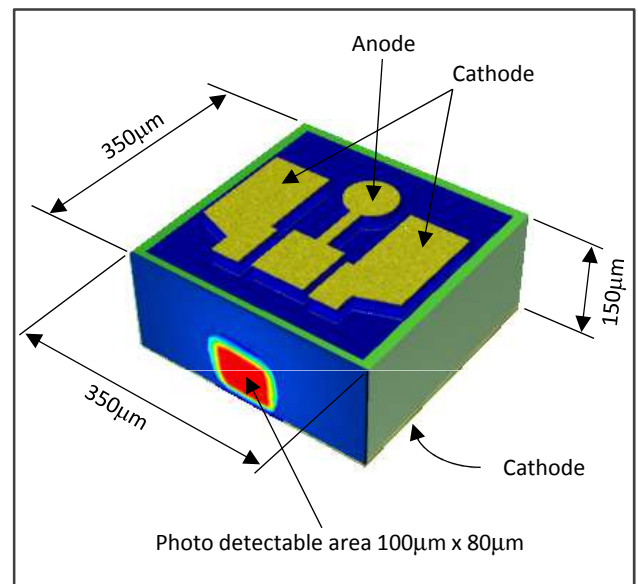


**Features**

- Edge illuminated type for surface hybrid integration
- Low dark current
- High reliability

**Applications**

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

**Absolute Maximum Ratings**

Parameter	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	°C	Avoid dew condensation
Storage temperature	$T_{stg}$	-40 to +85	°C	Avoid dew condensation

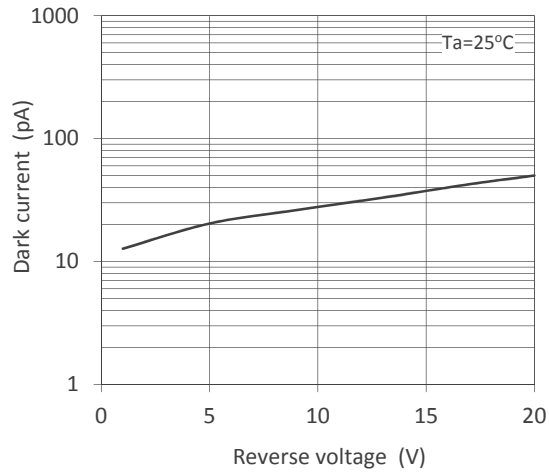
**Electrical and Optical Characteristics** ( $T_a=25^\circ\text{C}$ ,  $V_R=5\text{V}$  unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Bandwidth	BW	0.8	1.5	-	GHz	$\lambda=1550\text{nm}$ , $P_i=-10\text{dBm}$
Responsivity	R	0.5	0.7	-	A/W	$\lambda=1310\text{nm}$ , $P_i=-10\text{dBm}$
		0.65	0.8	-		$\lambda=1550\text{nm}$ , $P_i=-10\text{dBm}$
Dark current	$I_D$	-	35	300	pA	
Chip capacitance	$C_{chip}$	-	0.85	1.2	pF	$f=1\text{MHz}$

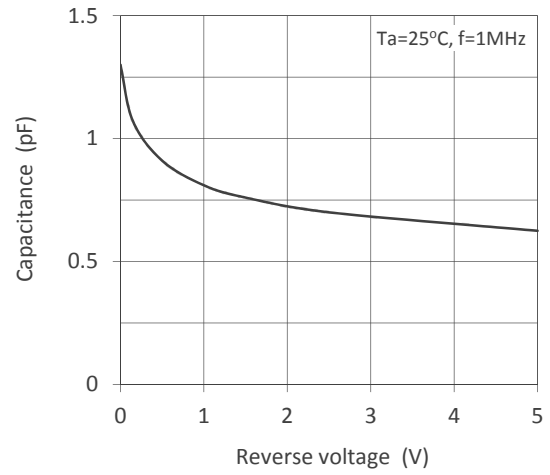
**Die dimension**

Parameter	Specification	Tolerance	Unit	Note
Chip size	350 x 350	$\pm 25$	$\mu\text{m}$	
Chip height	150	$\pm 20$		
Photo detectable area	100 x 80	$\pm 10$		1dB down

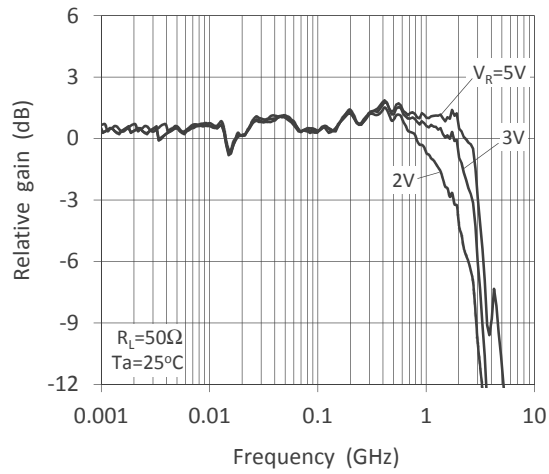
**Dark Current - Reverse Voltage**



**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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