

## Mini Can InGaAs PD Pigtail



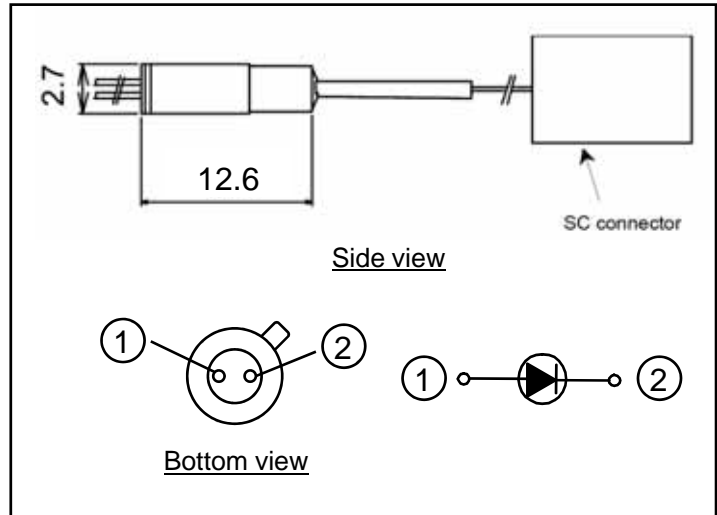
### Features

- 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 communication

### Dimensions (unit: mm)



### Specifications

#### Absolute Maximum Ratings

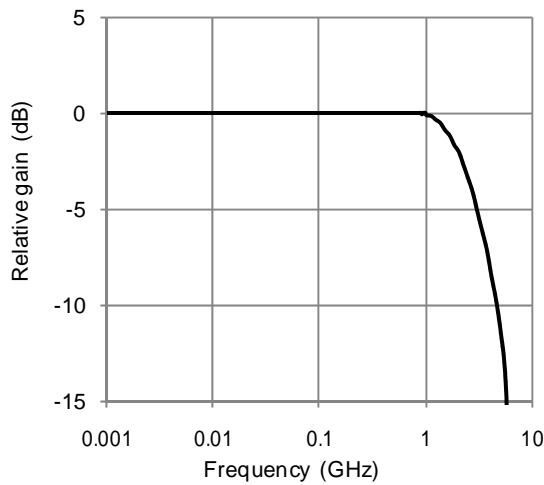
Parameter	Symbol	Value	Unit
Reverse voltage	$V_R$	20	V
Maximum optical power input	$P_{i\ max}$	10	mW
Forward current	$I_F$	10	mA
Operating temperature	$T_{opr}$	-40 to +85	°C
Storage temperature	$T_{stg}$	-40 to +85	°C

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

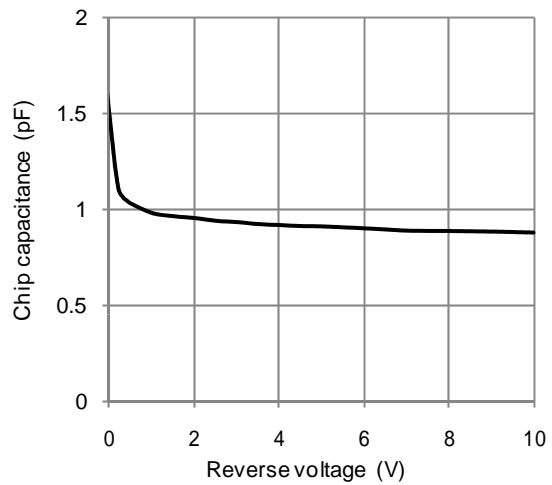
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Active diameter	D	80			$\mu\text{m}$	
Bandwidth	BW	1.0	2.0		GHz	$P_i=-10\text{dBm}$ , small signal modulation, $V_R=5\text{V}$
Responsivity	R	0.80	0.85		A/W	$\lambda=1310\text{nm}$ , $V_R=5\text{V}$
		0.90	0.98			$\lambda=1550\text{nm}$ , $V_R=5\text{V}$
Dark current	$I_D$		30	160	pA	$V_R=5\text{V}$
Total capacitance	$C_t$		0.91	1.1	pF	$V_R=5\text{V}$ , $f=1\text{MHz}$

Specifications are subject to change without notice.

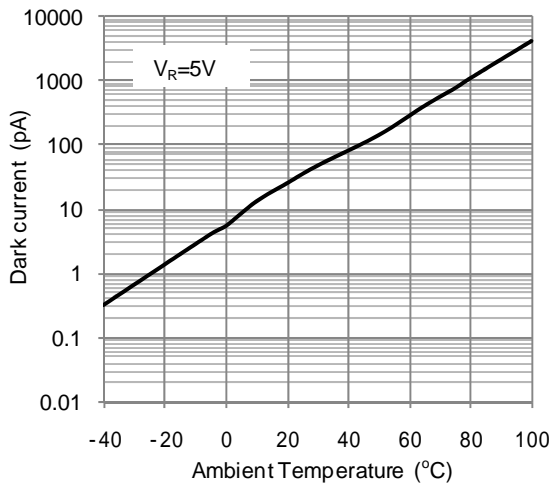
Frequency response



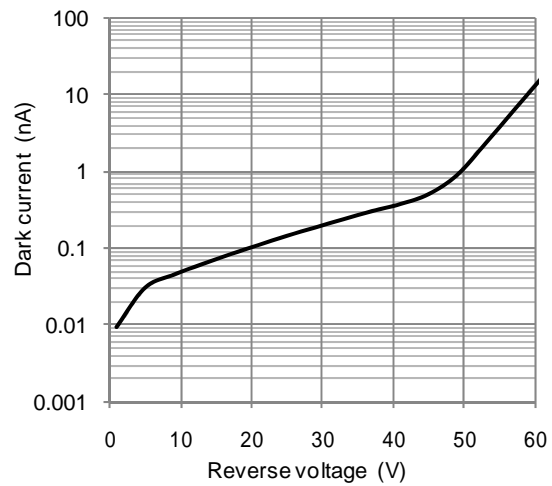
C-V characteristics



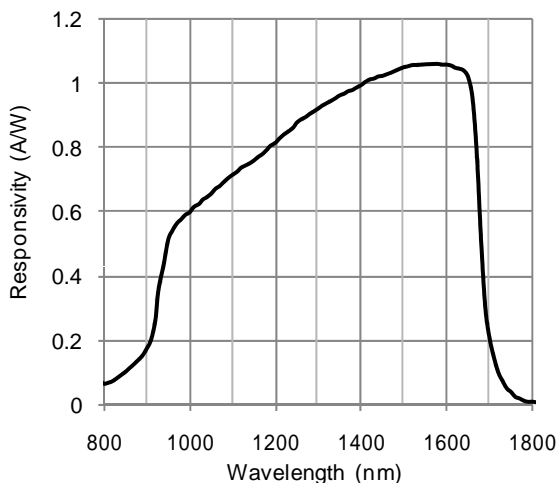
Dark current - ambient temperature



Dark current - reverse voltage



Spectral Responsivity



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