



# 北京世维通光通讯技术有限公司

Beijing SWT Optical Communication Technology Co., Ltd.

## InGaAs PIN Photodiode

Type: PDS343-CSC

### FEATURES:

- Planar semiconductor design and dielectric passivation.
- 3-pin coaxial streamline packaging. with SC connector.
- Superior noise and photoelectric performance.
- Hermetical packaging and 100% purge burn-in.
- Applied for optical fiber communication system, analog CATV application.

### ELECTRO-OPTICAL CHARACTERISTICS(T=25 °C):

PARAMETERS	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Wavelength			1000		1650	nm
Dark Current	I <sub>D</sub>	Ee=0, V <sub>R</sub> =5V		0.2	0.5	nA
Responsivity	R <sub>e</sub>	V <sub>R</sub> =5V, =1310nm	0.85	0.90		A/W
Responsivity	R <sub>e</sub>	V <sub>R</sub> =5V, =1550nm	0.90	0.95		A/W
Capacitance	C	f=1MHz, case grounded V <sub>R</sub> =5V Ee=0		0.63	0.75	pF
Operating voltage	V <sub>opr</sub>			-5	-15	V
Frequency	BW	V <sub>R</sub> =5V, 50 load with lead length=6mm, case open	2			GHz

### ABSOLUTE MAXIMUM RATINGS(T=25 °C):

PARAMETERS	MIN	MAX	UNIT
Reverse Voltage		25	V
Input optical power		10	dBm
Reverse Current		5	mA
Forward Current		10	mA
Operating Temperature	-40	+85	
Storage Temperature	-40	+85	
Lead Solder Temperature		260	
Lead soldering duration		10	s

### PRECAUTIONS:

- a ESD protection is imperative.
- b Please shorten the length of the devices leads as much as possible.

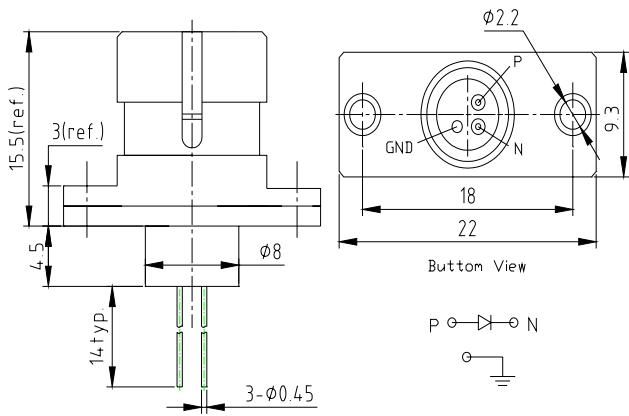
Address : 10th Floor, Tower C2, Dong ChangAn Street Dongcheng District, Beijing

P.C. : 100738 Tel : 010-85180588 Fax : 010-85185617 <http://www.swt-oc.com>

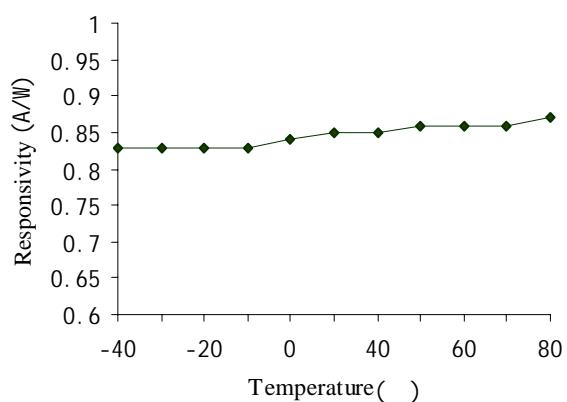


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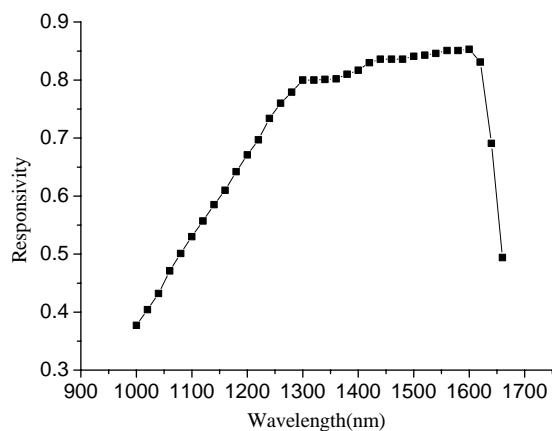
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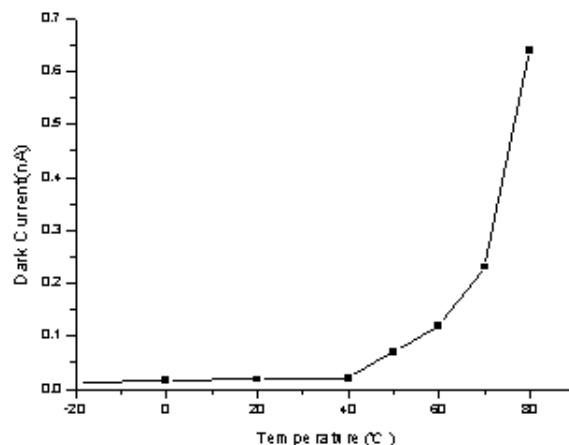
Package Dimensions



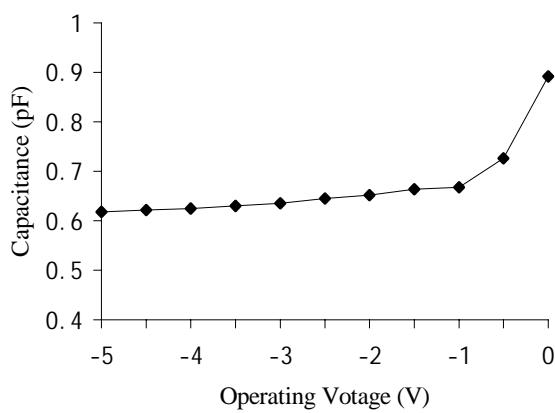
Responsivity-Temperature Curve



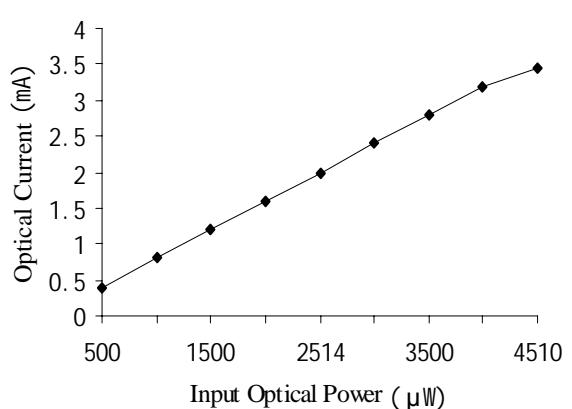
Spectrum Curve



Dark Current-Temperature Curve



Capacitance-Voltage Curve



Current-Optical Power Curve

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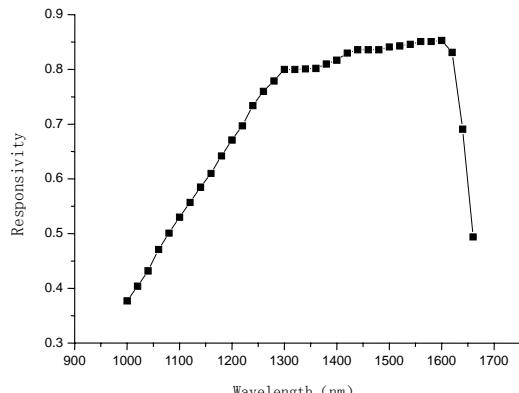
Type: PDS383-OT-a

Electro-optical Characteristics( $T=25^{\circ}\text{C}$ ):

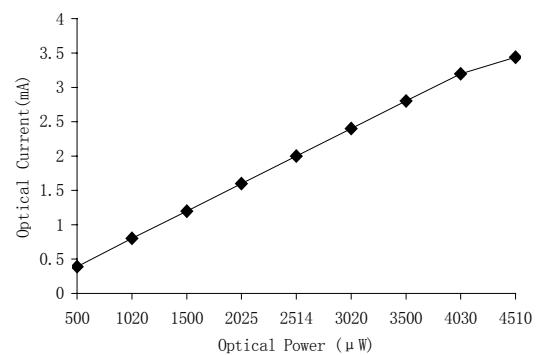
Parameters	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Wavelength	$\lambda$		1000		1650	nm
Dark Current	$I_D$	$E_e=0, -5\text{V}$		2	5	nA
Responsivity(Unattenuation)	$R_e$	1310nm	0.85	0.90		A/W
Active diameter	$\phi$			1000		$\mu\text{m}$
Operating Voltage	$V_{opr}$			-1	-5	V

Absolute maximum ratings:

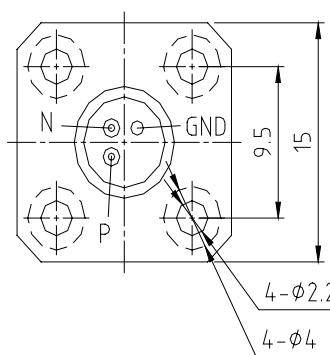
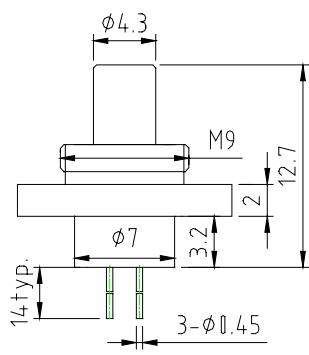
Parameters	Symbol	Value	Unit
Reverse Voltage	$V_R$	15	V
Reverse Current		5	mA
Forward Current	$I_P$	10	mA
Operating Temperature Range	$T_{opr}$	-40—+85	°C
Storage Temperature Range	$T_{stg}$	-40—+85	°C
Lead Solder Temperature		260	°C



Spectrum Curve

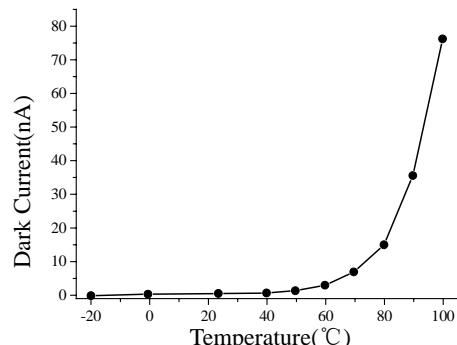


Current-Optical Power Curve



Package Dimensions(mm)

Dark Current-Temperature Curve



**Features:** The large active area chip of the InGaAs photodiode guarantees the testing coincidence; suits for kinds of connectors testing, such as SC, FC, ST, etc.

**Precautions:** ESD protection is imperative.

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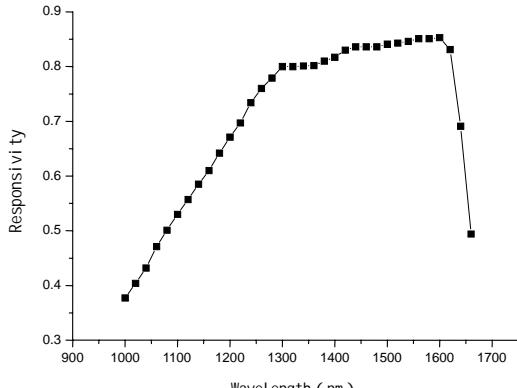
Type: PDS363-OT-a02

Electro-optical Characteristics( $T=25^{\circ}\text{C}$ ):

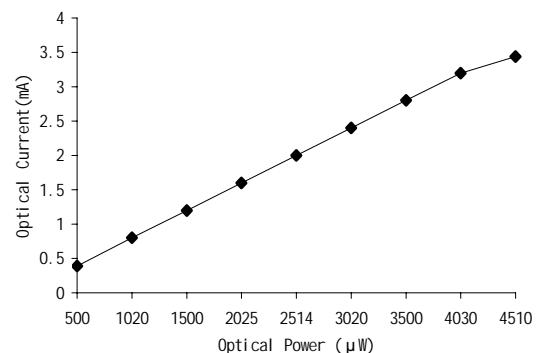
Parameters	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Wavelength			1000		1650	nm
Dark Current	$I_D$	$E_e=0, -0.1\text{V}$		2	5	nA
Responsivity(Unattenuation)	$R_e$	1310nm	0.85	0.90		A/W
Attenuation				20		dB
Active diameter				1500		$\mu\text{m}$
Operating Voltage	$V_{opr}$			-1	-3	V

Absolute maximum ratings:

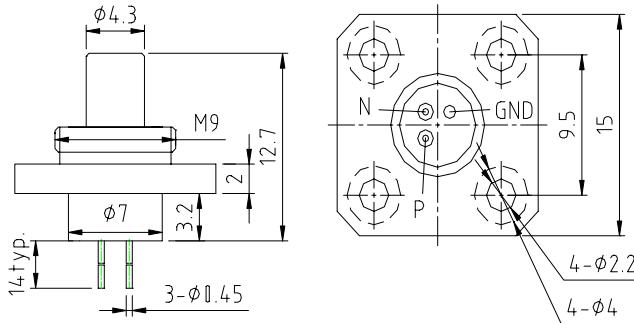
Parameters	Symbol	Value	Unit
Reverse Voltage	$V_R$	10	V
Reverse Current		5	mA
Forward Current	$I_P$	10	mA
Operating Temperature Range	$T_{opr}$	-40—+85	
Storage Temperature Range	$T_{stg}$	-40—+85	
Lead Solder Temperature		260	



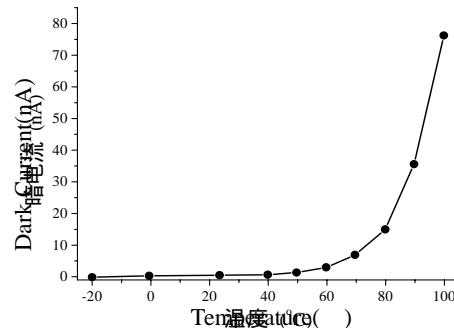
Spectrum Curve



Current-Optical Power Curve



Package Dimensions (mm)



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