

Si PIN-Photodiode

KPID1301H

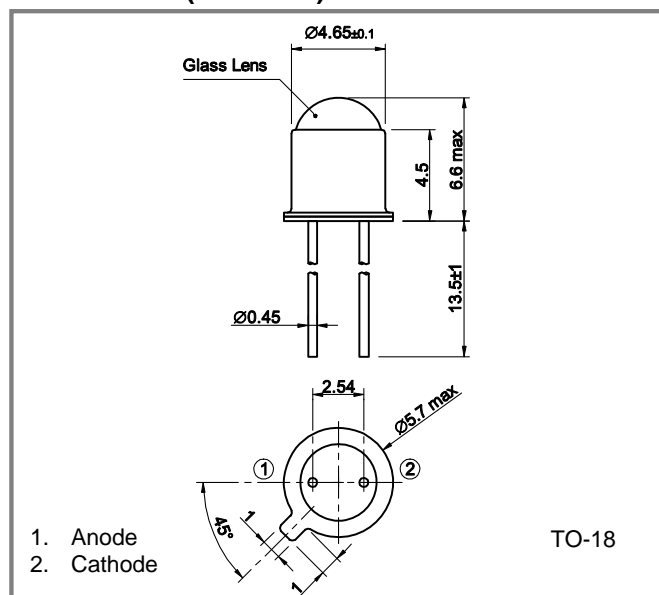
Features

- Hermetic seal type for high reliability uses
- Sharp directivity
- High frequency response

Applications

- Optical switches
- Optical encoders
- Pulse detectors
- Sensors and industrial controls

Dimensions (unit: mm)



Absolute Maximum Ratings

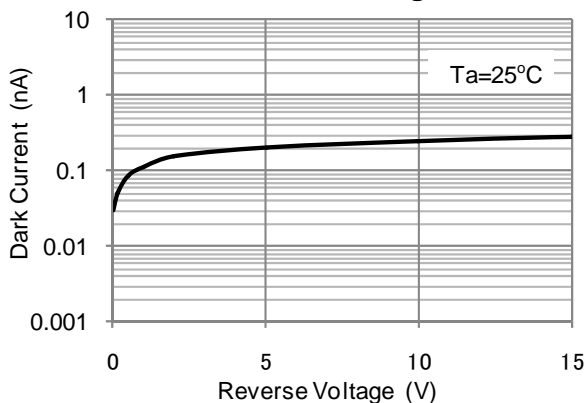
Parameter	Symbol	Value	Unit	Note
Reverse voltage	V_R	15	V	
Reverse current	I_R	500	μA	
Forward current	I_F	10	mA	
Operating temperature	T_{opr}	-30 to +100	$^{\circ}C$	Avoid dew condensation
Storage temperature	T_{stg}	-40 to +125	$^{\circ}C$	Avoid dew condensation

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

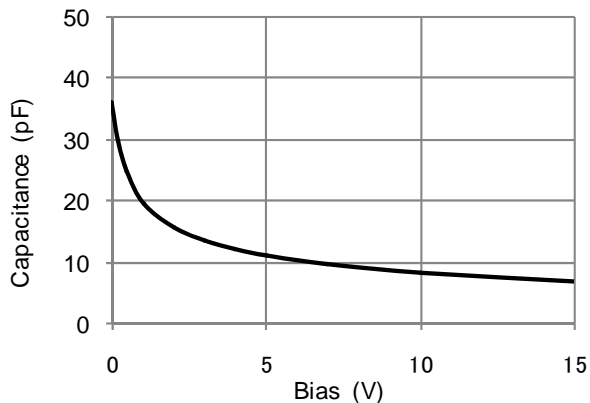
Parameter	Symbol	Min.	Typ.	Max	Unit	Test Conditions
Active area	S	1.1 x 1.1			mm^2	
Operating voltage	V_{opr}	-	-	5	V	
Sensitive wavelength	λ	400	900(λ_p)	1000	nm	λ_p =Peak wavelength
Open circuit voltage	V_{op}	-	380	-	mV	1000lx @2856K
Short circuit current	I_{sh}	-	60	-	μA	1000lx @2856K
Dark current	I_D	-	-	10	nA	$V_R=5V$
Terminal capacitance	C_t	-	11	-	pF	$V_R=5V, f=1MHz$

Specifications are subject to change without notice.

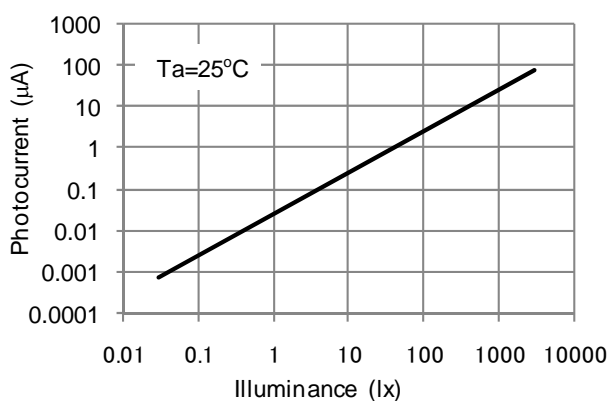
Dark Current - Reverse Voltage



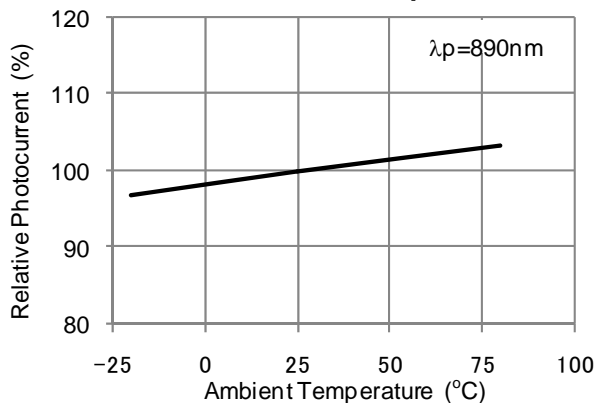
CV Characteristics



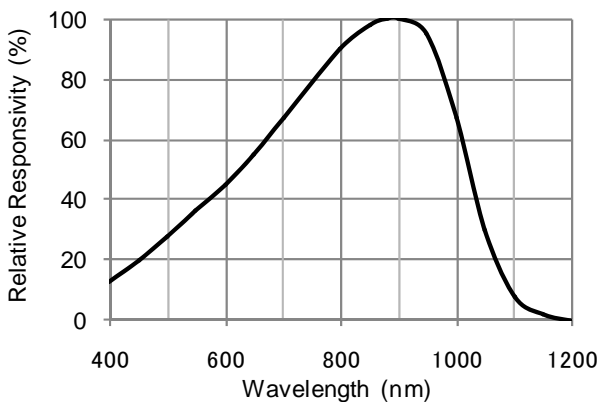
Photocurrent - Illuminance



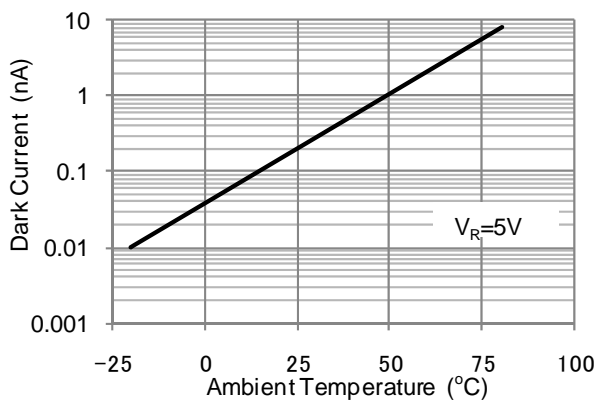
Photocurrent - Ambient Temperature



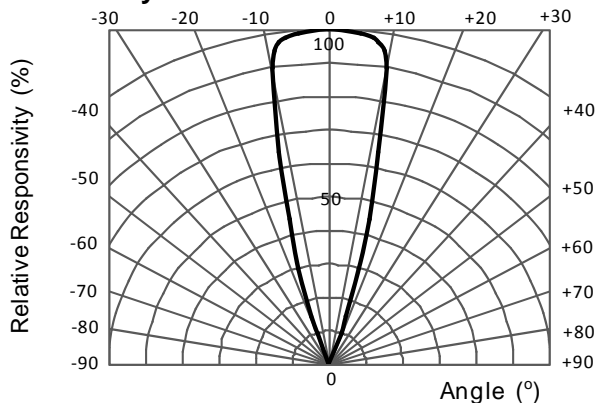
Spectral Responsivity



Dark Current - Ambient Temperature



Directivity



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Contacts:

www.kyosemi.co.jp / info@kyosemi.co.jp

Kansai Sales Office: 949-2 Ebisu-cho, Fushimi-ku, Kyoto, 612-8201 Japan Tel: +81 75 605 7311 Fax: +81 75 605 7312 (Overseas Sales Dept.)

Tokyo Sales Office: 24th Sky Building, 2nd Floor, 1-34-3 Shinjuku, Shinjuku-ku, Tokyo 160-0022 Japan Tel: +81 3 5312 5360 Fax: +81 3 5312 5367

Eniwa Operation: 385-31 Toiso, Eniwa-shi, Hokkaido 061-1405 Japan Tel: +81 123 34 3111 Fax: +81 123 34 2110

Kyosemi Opto America Corp: 3003 Bunker Hill Lane, Suite 102, Santa Clara, CA 95054 USA Tel: +1 408 492 1486 Fax: +1 408 492 9843