

Laser detectors

KODENSHI

HPI - 14262

HPI - 14262 is silicon PIN photodiodes for detecting laser beam. HPI - 14262 has active areas for tracking on both sides of four segmented photodiodes.

FEATURES

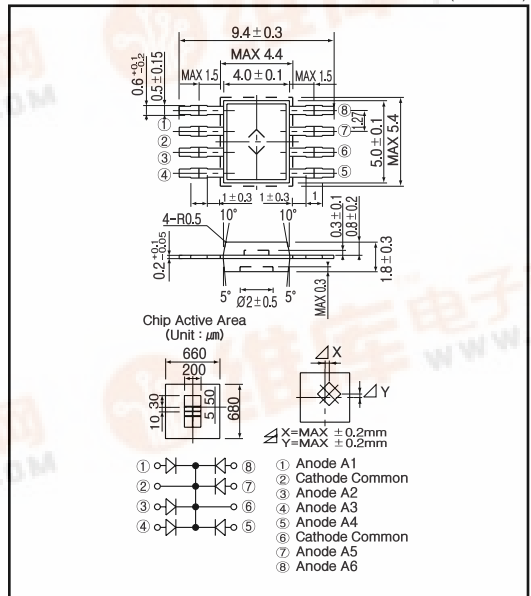
- Six segmented photodiodes

APPLICATIONS

- Optical pick up

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25 )

Item	Symbol	Rating	Unit
Reverse voltage	V <sub>r</sub>	30	V
Power dissipation	P <sub>o</sub>	30	mW
Operating temp.	T <sub>opr.</sub>	- 20 ~ + 85	
Storage temp.	T <sub>stg.</sub>	- 40 ~ + 100	
Soldering temp. *1	T <sub>sol.</sub>	260	

\*1. For MAX.2 seconds at the position of 0.5mm from the package

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25 )

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Open circuit voltage	V <sub>op</sub>	E <sub>v</sub> = 1000lx		0.38		V
Light current	I <sub>L</sub>	V <sub>r</sub> = 10V, E = 1,000lx <sup>-2</sup>		{2.5} 0.1		μA
Sensitivity	S	p = 680nm	0.4	0.5		A/W
Dark current	I <sub>d</sub>	V <sub>r</sub> = 10V			10	nA
Capacitance	C <sub>t</sub>	V <sub>r</sub> = 10V, f = 1MHz		{3.5} 4		pF
Spectral sensitivity				400 1100		nm
Peak wavelength	p			800		nm
Half angle				± 65		deg.

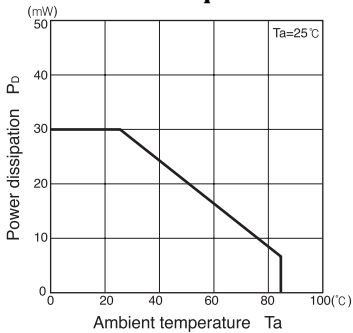
\*2. Color temp. = 2856K standard Tungsten lamp



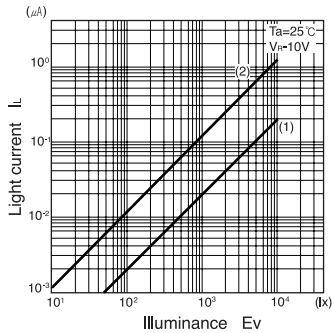
**Laser detectors**

**HPI - 14262**

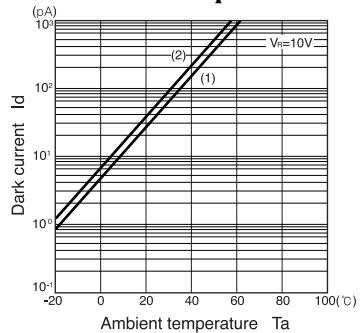
**Power dissipation Vs. Ambient temperature**



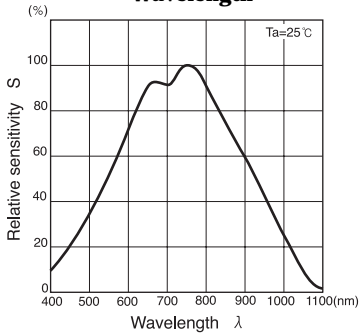
**Light current Vs. Illuminance**



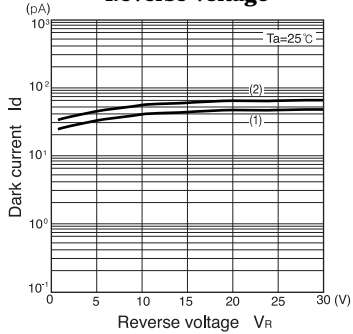
**Dark current Vs. Ambient temperature**



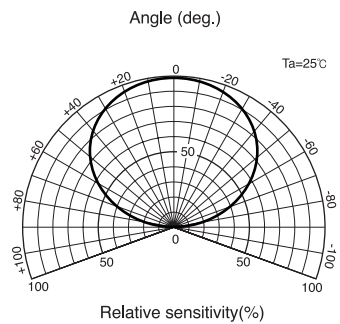
**Relative sensitivity Vs. Wavelength**



**Dark current Vs. Reverse voltage**



**Radiant Pattern**



**Capacitance between terminals Vs. Reverse voltage**

