

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

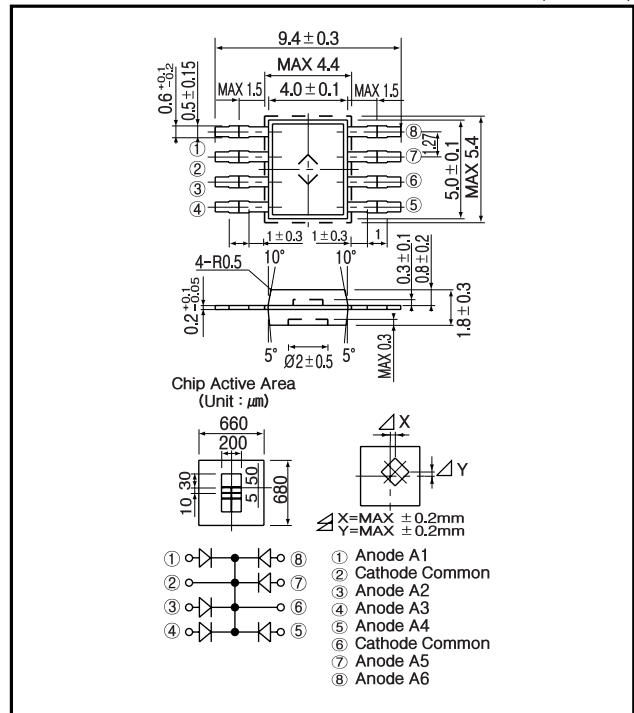
- Six segmented photodiodes

APPLICATIONS

- Optical pick up

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25)

Item	Symbol	Rating	Unit
Reverse voltage	V _R	30	V
Power dissipation	P _D	30	mW
Operating temp.	Topr.	- 20 ~ +85	
Storage temp.	Tstg.	- 40 ~ +100	
Soldering temp. *1	Tsol.	260	

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

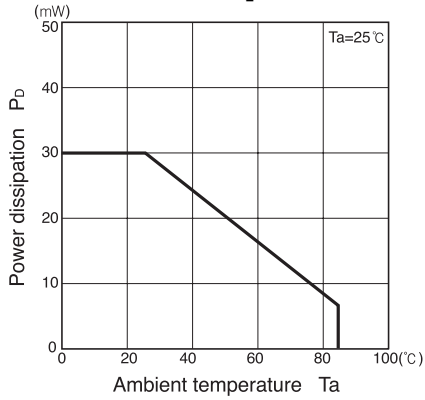
ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25)

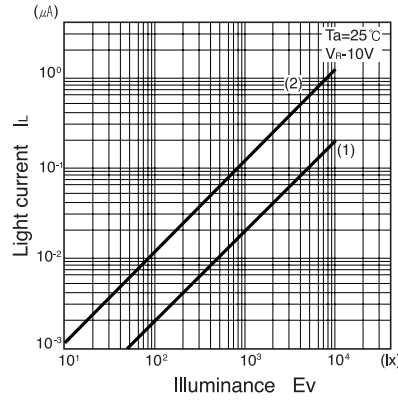
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Open circuit voltage	V _{op}	E _v = 1000lx		0.38		V
Light current	I _L	V _R = 10V, E _v = 1,000lx ⁻²		{2}0.9 ^{±2}		μA
Sensitivity	S	p = 680nm	0.4	0.5		A/W
Dark current	I _d	V _R = 10V			10	nA
Capacitance	C _t	V _R = 10V, f = 1MHz		{2}6 ^{±4}		pF
Spectral sensitivity				400 1100		nm
Peak wavelength	p			800		nm
Half angle				± 65		deg.

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

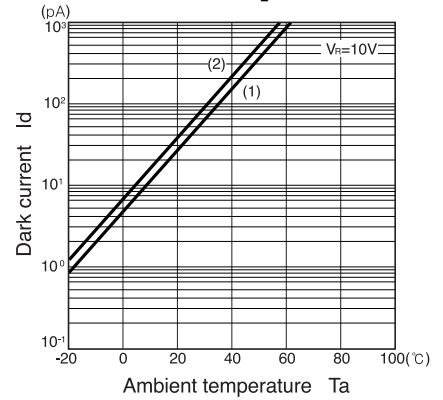
Power dissipation Vs. Ambient temperature



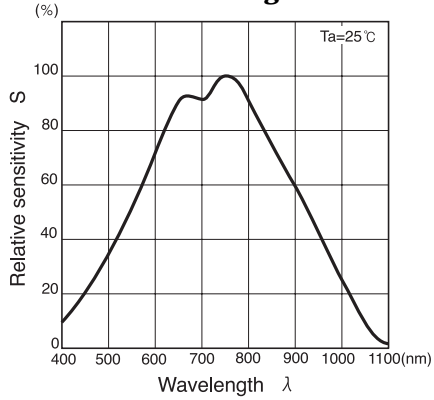
Light current Vs. Illuminance



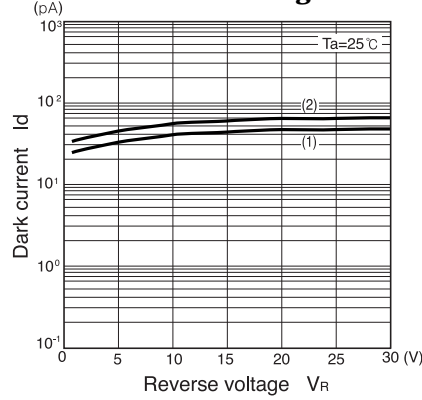
Dark current Vs. Ambient temperature



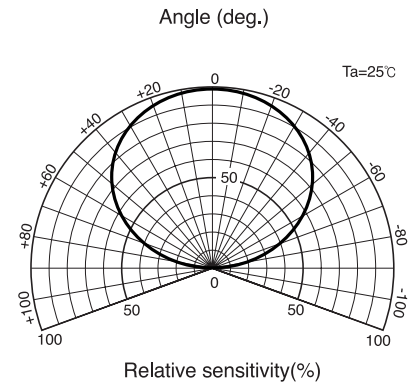
Relative sensitivity Vs. Wavelength



Dark current Vs. Reverse voltage



Radiant Pattern



Capacitance between terminals Vs. Reverse voltage

