

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

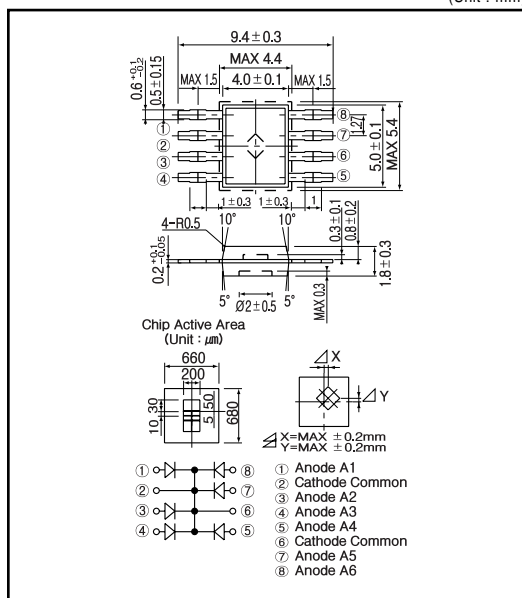
- Six segmented photodiodes

APPLICATIONS

- Optical pick up

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

($T_a = 25$)

Item	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Power dissipation	P_D	30	mW
Operating temp.	$T_{opr.}$	- 20 ~ + 85	
Storage temp.	$T_{stg.}$	- 40 ~ + 100	
Soldering temp. *1	$T_{sol.}$	260	

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

ELECTRO-OPTICAL CHARACTERISTICS

($T_a = 25$)

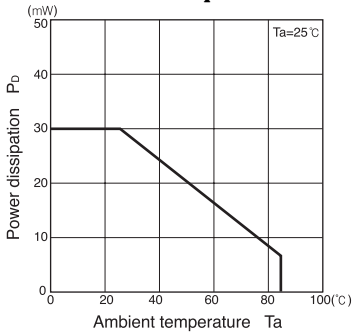
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Open circuit voltage	V_{op}	$E_V = 1000\text{lx}$		0.38		V
Light current	I_L	$V_R = 10\text{V}, E_V = 1,000\text{lx}^{-2}$		$\begin{matrix} (1) 0.02 \\ (2) 0.1 \end{matrix}$		μA
Sensitivity	S	$p = 680\text{nm}$	0.4	0.5		A/W
Dark current	I_d	$V_R = 10\text{V}$			10	nA
Capacitance	C_t	$V_R = 10\text{V}, f = 1\text{MHz}$		$\begin{matrix} (1) 4 \\ (2) 6 \end{matrix}$		pF
Spectral sensitivity				400 ~ 1100		nm
Peak wavelength	p			800		nm
Half angle				± 65		deg.

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

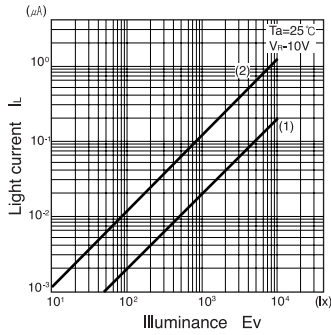
Laser detectors

HPI - 14262

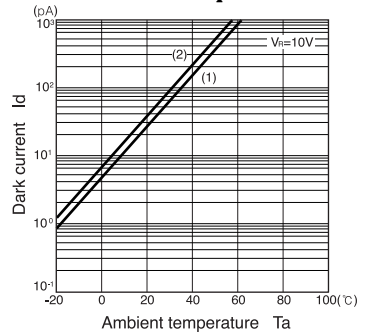
Power dissipation Vs. Ambient temperature



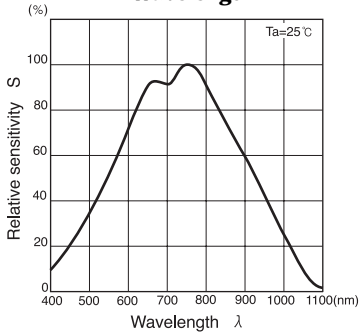
Light current Vs. Illuminance



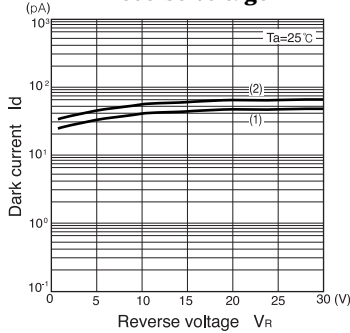
Dark current Vs. Ambient temperature



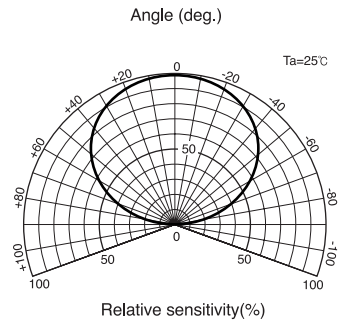
Relative sensitivity Vs. Wavelength



Dark current Vs. Reverse voltage



Radiant Pattern



Capacitance between terminals Vs. Reverse voltage

