

# 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**

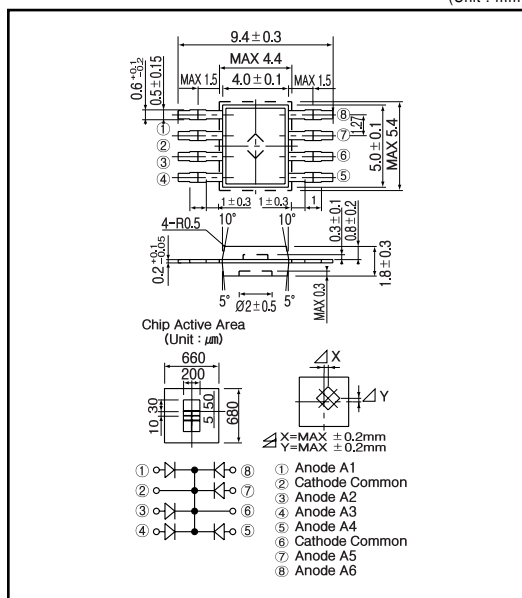
- Six segmented photodiodes

**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**

( $T_a=25$  )

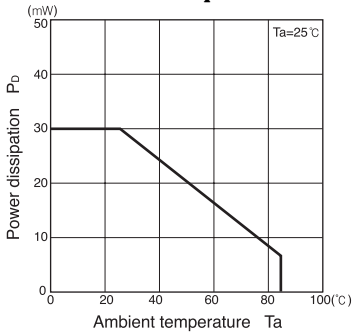
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Open circuit voltage	$V_{op}$	$E_V = 1000lx$		0.38		V
Light current	$I_L$	$V_R = 10V, E_V = 1,000lx^{-2}$		$\begin{matrix} (1) 0.02 \\ (2) 0.1 \end{matrix}$		$\mu A$
Sensitivity	S	$p = 680nm$	0.4	0.5		A/W
Dark current	$I_d$	$V_R = 10V$			10	nA
Capacitance	$C_t$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

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

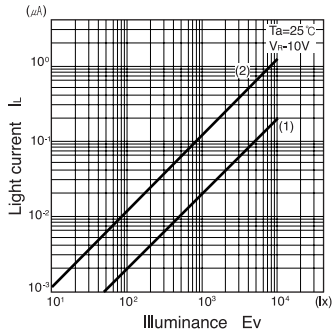
**Laser detectors**

**HPI - 14262**

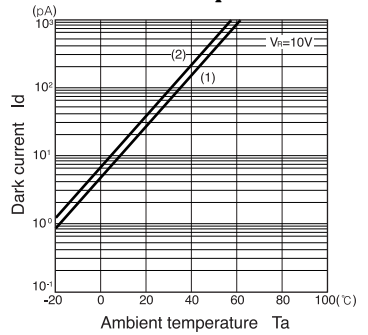
**Power dissipation Vs. Ambient temperature**



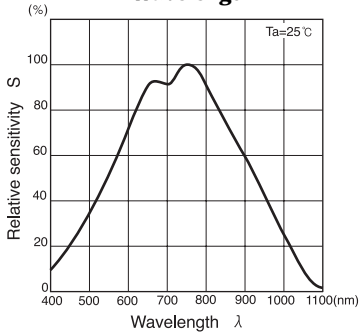
**Light current Vs. Illuminance**



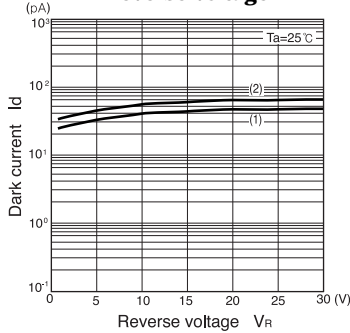
**Dark current Vs. Ambient temperature**



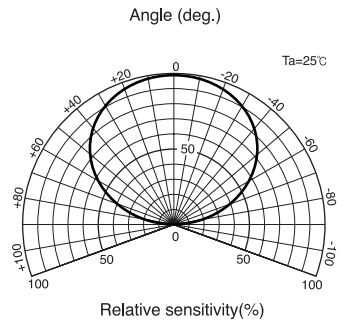
**Relative sensitivity Vs. Wavelength**



**Dark current Vs. Reverse voltage**



**Radiant Pattern**



**Capacitance between terminals Vs. Reverse voltage**

