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

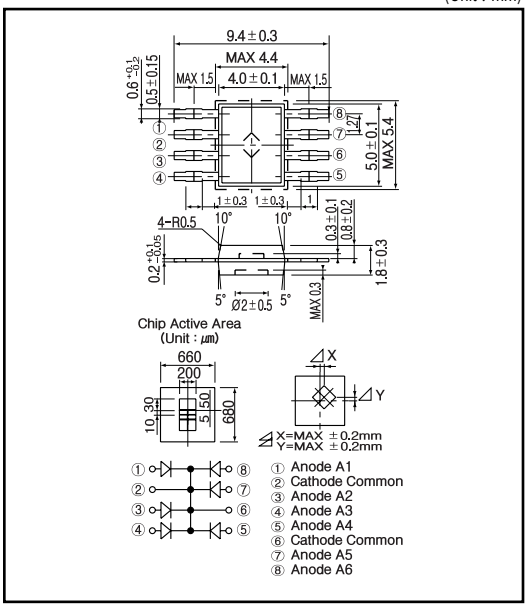
- Six segmented photodiodes

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		(1)0.02 (2)0.1		μA
Sensitivity	S	λp=680nm	0.4	0.5		A/W
Dark current	Id	V_R=10V			10	nA
Capacitance	Ct	V_R=10V, f=1MHz		(1)4 (2)6		pF
Spectral sensitivity	λ		400 1100			nm
Peak wavelength	λp			800		nm
Half angle	Δθ			±65		deg.

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

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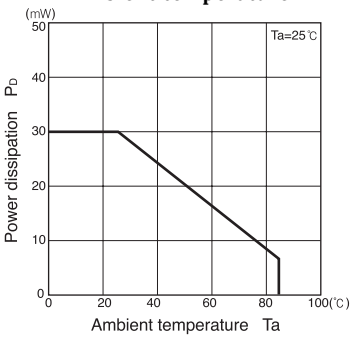
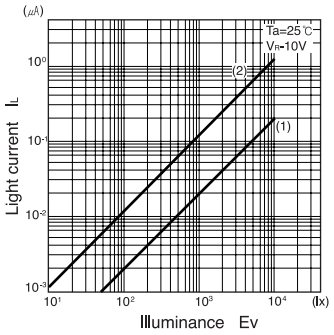
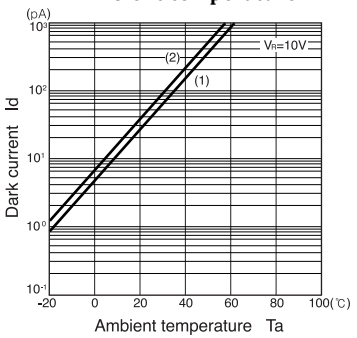
Power dissipation Vs. Ambient temperature



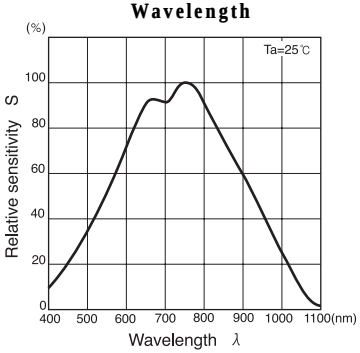
Light current Vs. Illuminance



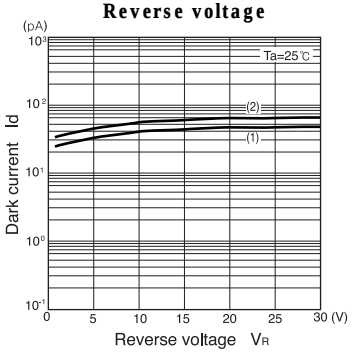
Dark current Vs. Ambient temperature



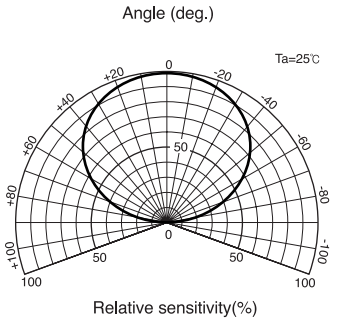
Relative sensitivity Vs. Wavelength



Dark current Vs. Reverse voltage



Radiant Pattern



Capacitance between terminals Vs. Reverse voltage

