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PIN Photodiode

KODENSHI

HPI - 147A66

The HPI - 147A66 is a silicon PIN photodiode has four active areas (photodiodes)integrated in one chip.

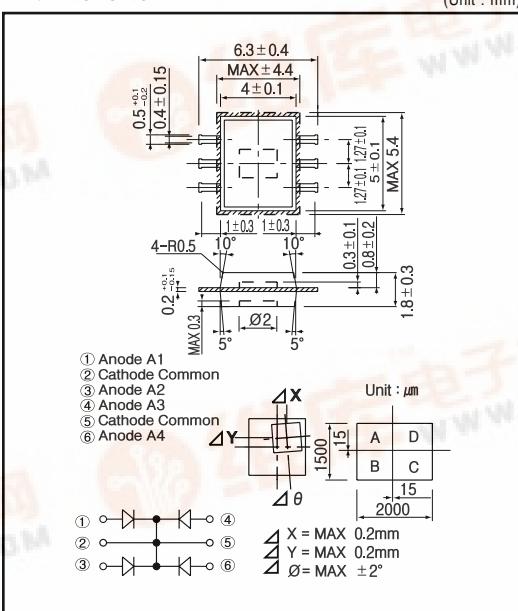
FEATURES

- Four segmented photodiodes/Flat plastic package
- High speed response

APPLICATIONS

- X - Y position sensors

DIMENSIONS



MAXIMUM RATINGS

(Ta=25)

Item	Symbol	Rating	Unit
Reverse voltage	V _R	30	V
Power dissipation	P _D	30	mW
Operating temp.	Topr.	- 25 ~ +85	
Storage temp.	Tstg.	- 40 ~ +100	
Soldering temp. ¹⁾	Tsol.	260	

*1. For MAX.5 seconds at the position of 2 mm from the package

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Light current	I _L	V _R =10V, E=1000lx ²⁾	7.0			μA
Sensitivity	S	V _R =10V, p=680nm	0.43	0.48		A/W
Dark current	I _D	V _R =10V			10	nA
Capacitance	C _t	V _R =10V, f=1MHz		5.0		pF
Spectral sensitivity				450~1050		nm
Peak wavelength	p			800		nm
Half angle				± 65		deg.
Rise time	tr	V _R =10V, RL=1k , p=780~800nm		10		ns
Fall time	tf			10		ns

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

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