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KODENSHI

PIN Photodiode

HPI - 2464 · HPI - 2464R5

The HPI - 2464, 2464R5 are silicon PIN photodiodes for automatic focusing of camera. HPI - 2464, 2464R5 have two active areas (photodiodes) integrated in one chip.

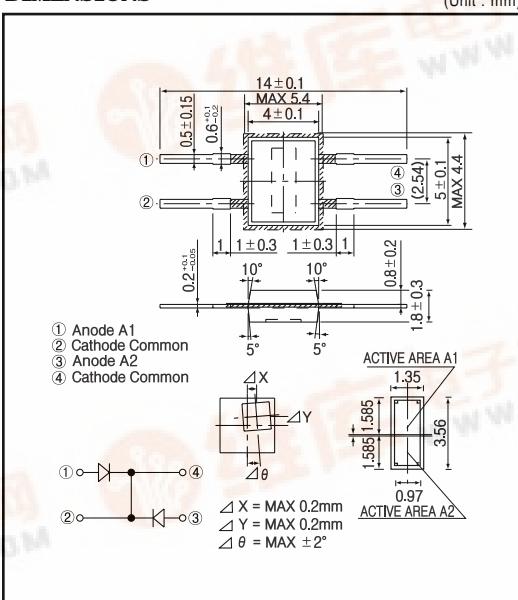
FEATURES

- Laser beam focusing/positioning is best performed.
- High - speed response by PIN construction.

APPLICATIONS

- Automatic focusing of camera.

DIMENSIONS



MAXIMUM RATINGS

(Ta=25 °C)

Item	Symbol	Rating	Unit
Reverse voltage	V _R	30	V
Power dissipation	P _D	30	mW
Operating temp.	T _{opr.}	-25~+85	
Storage temp.	T _{stg.}	-40~+100	
Soldering temp. ^{**}	T _{sol.}	260	

^{**}For MAX.5 seconds at the position of 2 mm from the package

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25 °C)

Item	Symbol	Conditions	HPI - 2464			HPI - 2464R5			Unit.
			Min.	Typ.	Max.	Min.	Typ.	Max.	
Open circuit voltage	V _{oc}			0.35			0.35		V
Short circuit current	I _{sc}	E _v =1,000lx ²	10	17		8	12		μA
Sensitivity	S			0.5			0.5		A/W
Dark current	I _d	V _R =10V			20			20	nA
Curve factor	C.F.		0.55			0.55			-
Capacitance	C _t	V=10V, f=1MHz		10			10		pF
Temperature coefficient of V _{oc}	t			-2.2			-2.2		mV/°C
Temperature coefficient of I _{sc}	t			0.18			0.18		%/°C
Spectral sensitivity				450~1,050			700~1,050		nm
Peak wavelength	λ			900			940		nm
Half angle				±65			±65		deg.

^{**}Color temp. = 2856K standard Tungsten lamp

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