

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

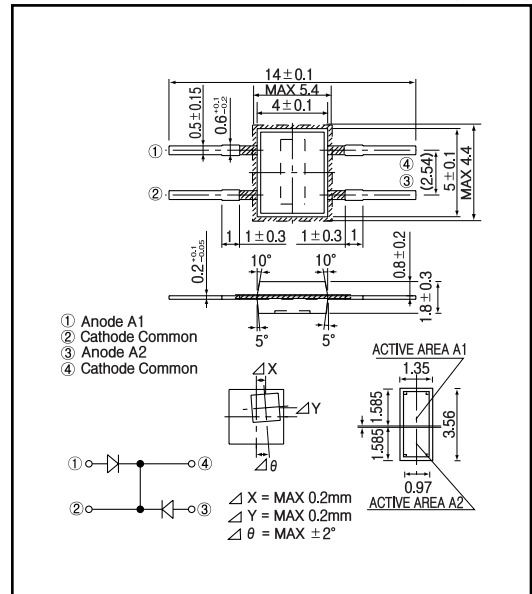
- Laser beam focusing/positioning is best performed.
- High - speed response by PIN construction.

APPLICATIONS

- Automatic focusing of camera.

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta = 25°C)

Item	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Power dissipation	P_o	30	mW
Operating temp.	$T_{opr.}$	- 25 ~ +85	°C
Storage temp.	$T_{stg.}$	- 40 ~ +100	°C
Soldering temp. ^{*1}	$T_{sol.}$	260	°C

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

ELECTRO-OPTICAL CHARACTERISTICS

(Ta = 25°C)

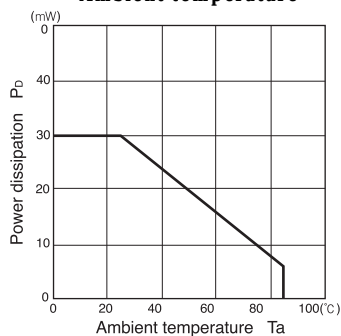
Item	Symbol	Conditions	HPI - 2464			HPI - 2464R5			Unit.
			Min.	Typ.	Max.	Min.	Typ.	Max.	
Open circuit voltage	V_{oc}	$E_v = 1,000lx^2$		0.35			0.35		V
Short circuit current	I_{sc}		10	17		8	12		μA
Sensitivity	S			0.5			0.5		A/W
Dark current	I_d	$V_R = 10V$			20			20	nA
Curve factor	C.F.		0.55			0.55			-
Capacitance	C_t	$V = 10V, f = 1MHz$		10			10		pF
Temperature coefficient of V_{oc}	α_t			- 2.2			- 2.2		mV/°C
Temperature coefficient of I_{sc}	β_t			0.18			0.18		%/°C
Spectral sensitivity	λ		450 ~ 1,050			700 ~ 1,050			nm
Peak wavelength	λ_p		900			940			nm
Half angle	$\Delta \theta$		± 65			± 65			deg.

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

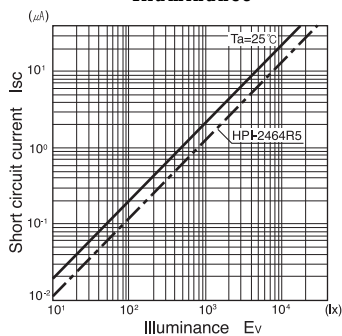
PIN Photodiode

HPI - 2464 · HPI - 2464R5

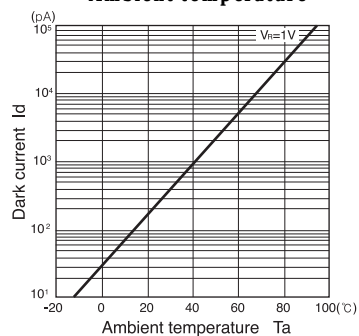
**Power dissipation Vs.
Ambient temperature**



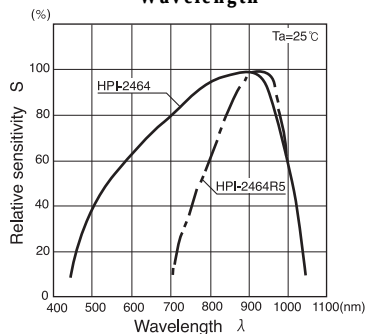
**Short circuit current Vs.
Illuminance**



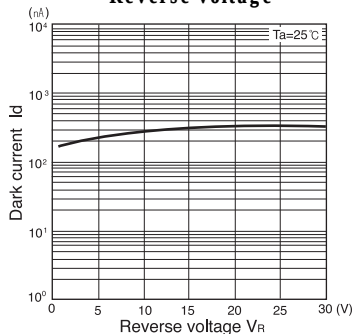
**Dark current Vs.
Ambient temperature**



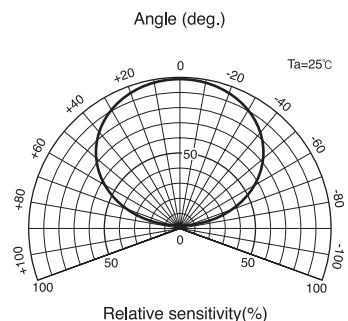
**Relative sensitivity Vs.
Wavelength**



**Dark current Vs.
Reverse voltage**



Radiant Pattern



**Capacitance between terminals Vs.
Reverse voltage**

