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

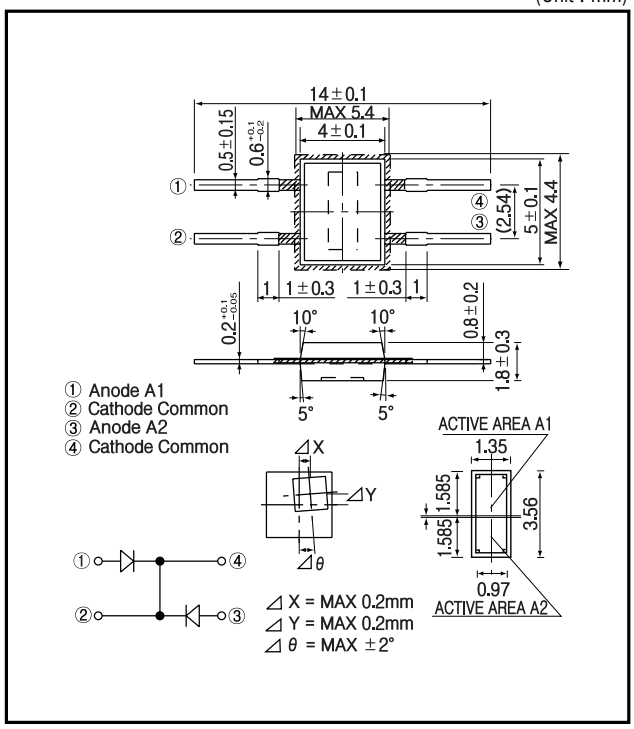
- Laser beam focusing/positioning is best performed.
- High - speed response by PIN construction.

APPLICATIONS

- Automatic focusing of camera.

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25℃)

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

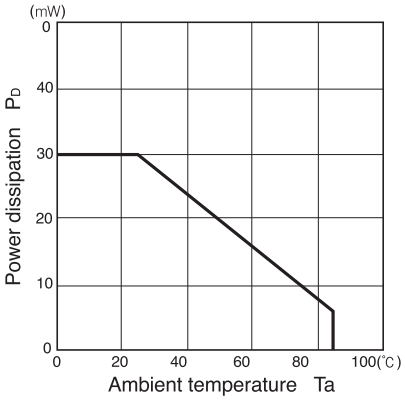
(Ta=25℃)

Item	Symbol	Conditions	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	Id	V_R=10V			20			20	nA
Curve factor	C.F.		0.55			0.55			-
Capacitance	Ct	V=10V, f=1MHz		10			10		pF
Temperature coefficient of V_{OC}	αt			-2.2			-2.2		mV/℃
Temperature coefficient of I_{SC}	βt			0.18			0.18		%/℃
Spectral sensitivity	λ		450~1,050			700~1,050			nm
Peak wavelength	λp			900			940		nm
Half angle	Δθ			±65			±65		deg.

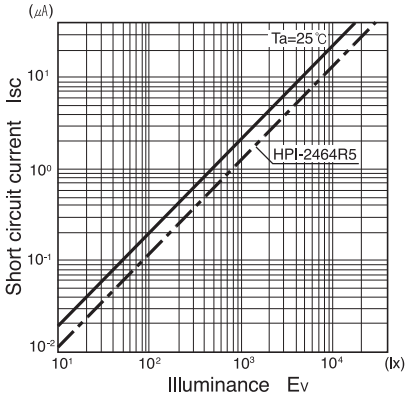
*2.Color temp.=2856K standard Tungsten lamp

HPI - 2464· HPI - 2464R5

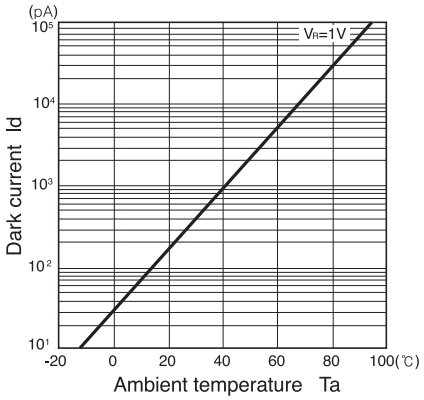
Power dissipation Vs. Ambient temperature



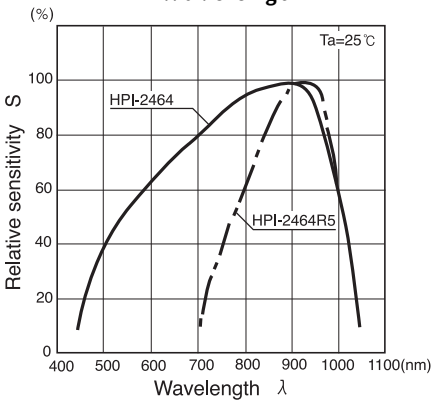
Short circuit current Vs. Illuminance



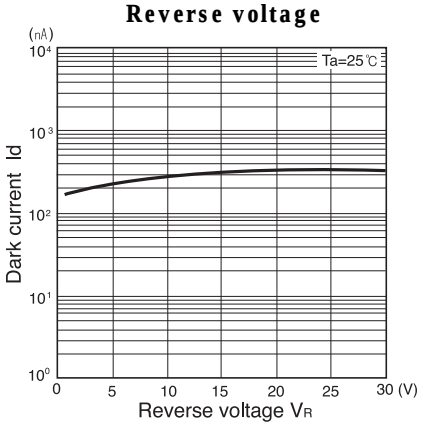
Dark current Vs. Ambient temperature



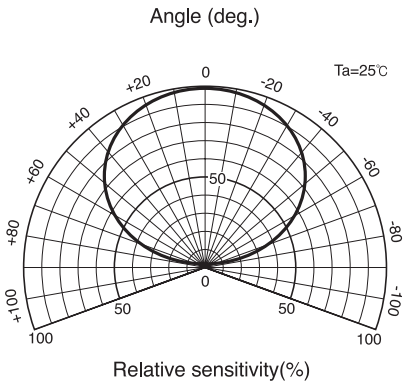
Relative sensitivity Vs. Wavelength



Dark current Vs. Reverse voltage



Radiant Pattern



Capacitance between terminals Vs. Reverse voltage