PIN Photodiode

KODENSHI

HPI - 6FH

The HPI - 6FH is a high - output, high - speed silicon photodiode mounted in a side - viewing plastic package . This photodiode isboth compact and easy to mount.

FEATURES

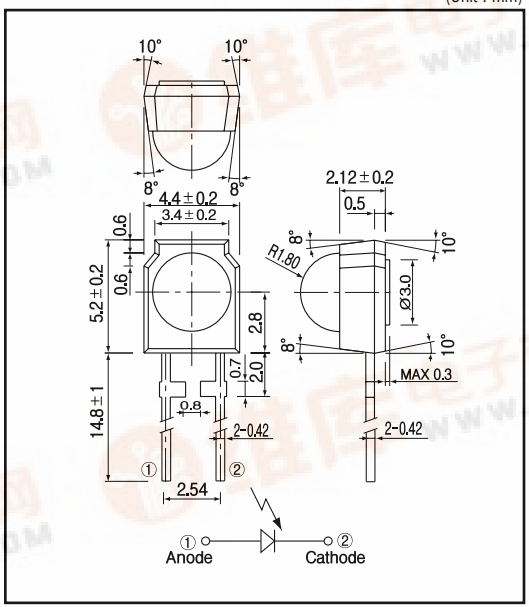
- Plastic mold package
- High speed response

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.	−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, Ev=1000lx*2	25			μA
Sensitivity	S	V_R=10V, λp=780nm	0.43	0.48		A/W
Dark current	Id	V_R=10V			5.0	nA
Capacitance	Ct	V_R=10V, f=1MHz		3.0		pF
Spectral sensitivity	λ			450~1050		nm
Peak wavelength	λp			800		nm
Half angle	Δ θ			±40		deg.
Rise time	tr	V_R=10V, RL=1kΩ, λp=780 800nm		10		ns
Fall time	tf			10		ns

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

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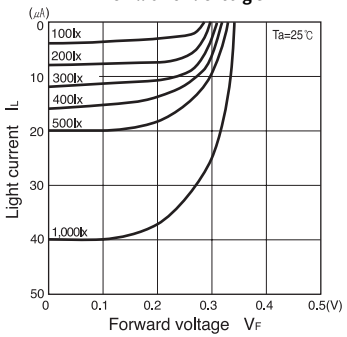
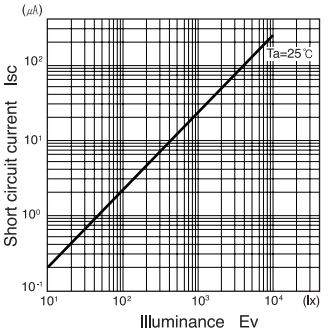
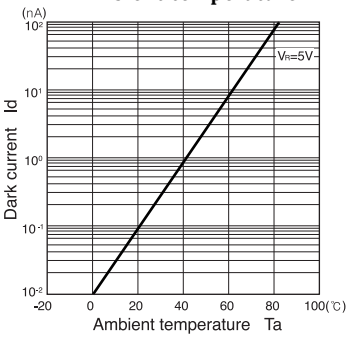
Light current Vs. Forward voltage



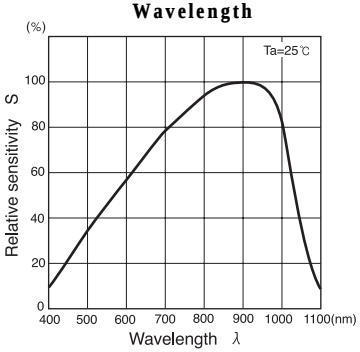
Short circuit current Vs. Illuminance



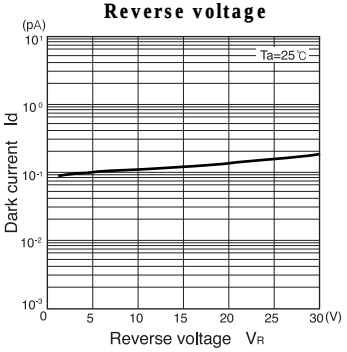
Dark current Vs. Ambient temperature



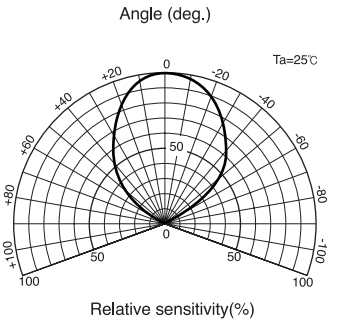
Relative sensitivity Vs. Wavelength



Dark current Vs. Reverse voltage



Radiant Pattern



Capacitance between terminals Vs. Reverse voltage