HPI - 5FCR2

The HPI - 5FCR2 is a high - output, high - speed silicon photodiode mounted in a side - viewing plastic package with visible light cutoff filter.

FEATURES

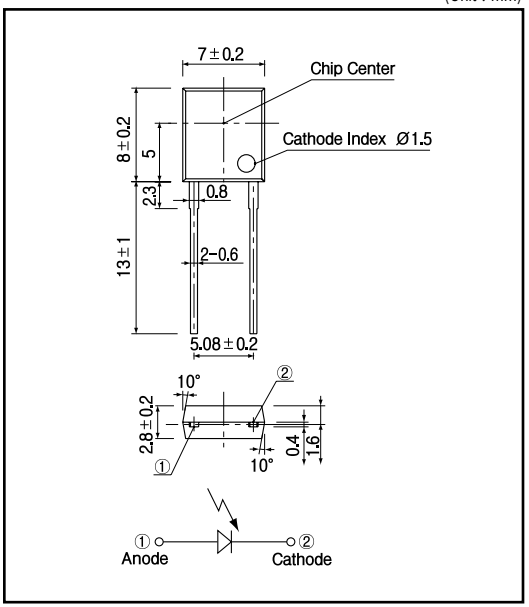
- Visible ray cut off mold type
- High output power
- High speed response

APPLICATIONS

- Optical transmission
- Optic receiver modules

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25℃)

Item	Symbol	Rating	Unit
Reverse voltage	V_R	35	V
Power dissipation	P_D	150	mW
Operating temp.	Topr.	−30 +70	℃
Storage temp.	Tstg.	−40 +80	℃
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.
Open circuit voltage	V_{OC}	E_V=1,000lx *2		0.38		V
Short circuit current	I_{SC}	E_V=1,000lx *2	24	50		μA
Curve factor	C.F.		0.55			—
Dark current	Id	V_R=10V			30	nA
Capacitance	Ct	V=0V,f=1MHz		49		pF
Temperature coefficient of Voc	αt			−2.2		mV/℃
Temperature coefficient of Isc	βt			0.18		%/℃
Spectral sensitivity	λ		700 1050			nm
Peak wavelength	λp			940		nm
Half angle	Δθ			±70		deg.

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

PIN Photodiode

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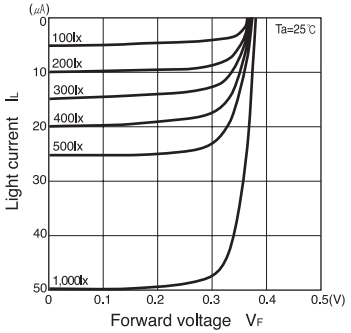
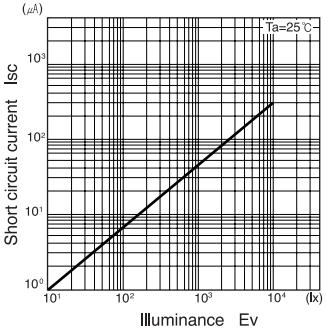
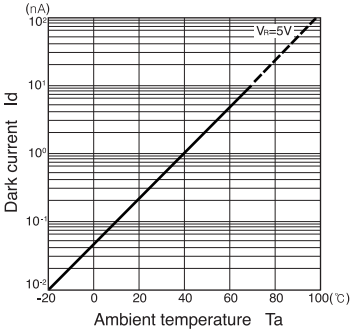
Light current Vs. Forward voltage



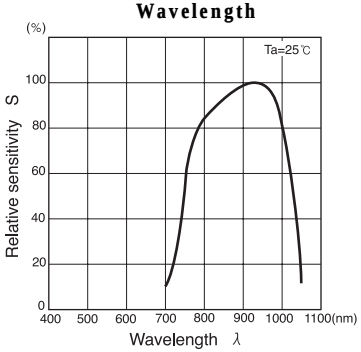
Short circuit current Vs. Illuminance



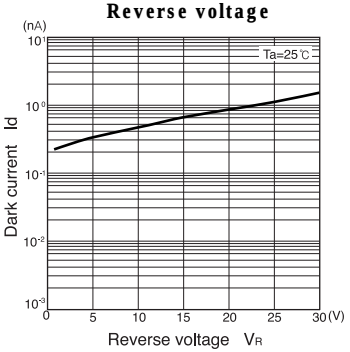
Dark current Vs. Ambient temperature



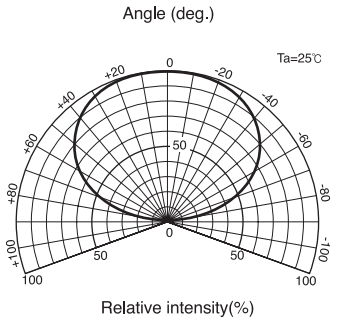
Relative sensitivity Vs. Wavelength



Dark current Vs. Reverse voltage



Radiant Pattern



Capacitance between terminals Vs. Reverse voltage