

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

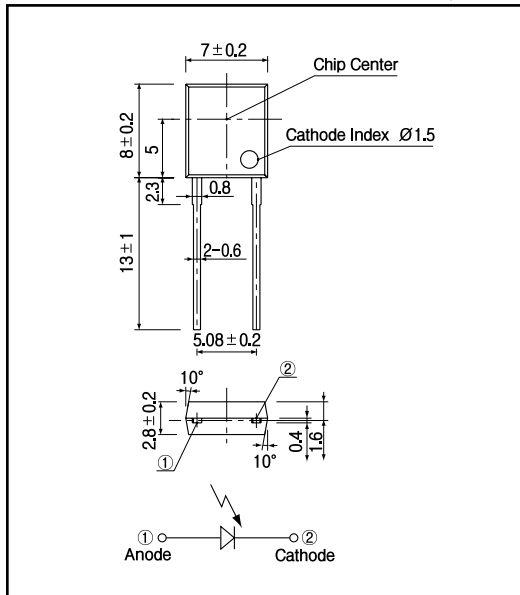
- Visible ray cut off mold type
- High output power
- High speed response

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 _b	150	mW
Operating temp.	T _{opr.}	- 30 +70	
Storage temp.	T _{stg.}	- 40 +80	
Soldering temp. *1	T _{sol.}	260	

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

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25)

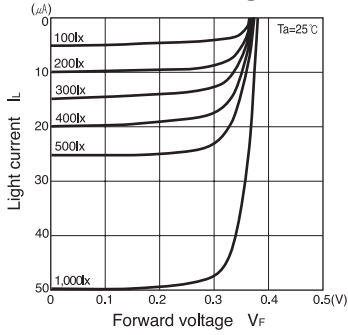
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Open circuit voltage	V _{oc}	E _v = 1,000lx ⁻²		0.38		V
Short circuit current	I _{sc}	E _v = 1,000lx ⁻²	24	50		μA
Curve factor	C.F.		0.55			—
Dark current	I _d	V _R = 10V			30	nA
Capacitance	C _t	V = 0V, f = 1MHz		49		pF
Temperature coefficient of V _{oc}	t			- 2.2		mV/
Temperature coefficient of I _{sc}	t			0.18		%/
Spectral sensitivity				700 1050		nm
Peak wavelength	λ			940		nm
Half angle				± 70		deg.

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

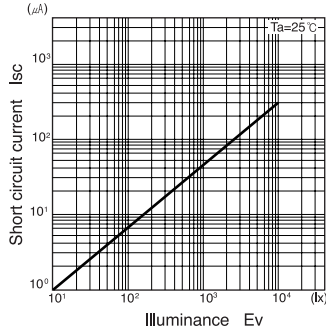
PIN Photodiode

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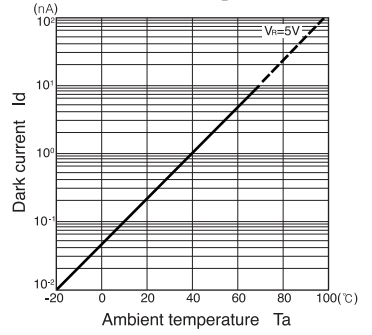
Light current Vs. Forward voltage



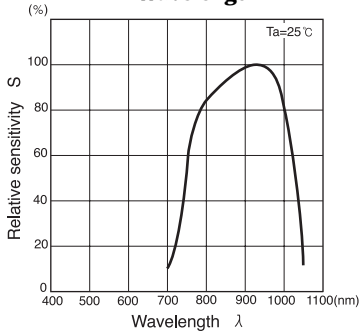
Short circuit current Vs. Illuminance



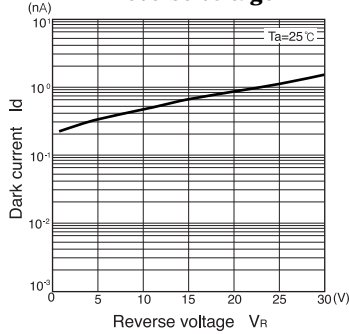
Dark current Vs. Ambient temperature



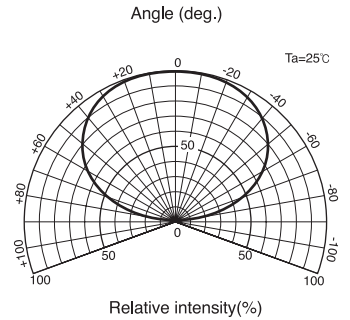
Relative sensitivity Vs. Wavelength



Dark current Vs. Reverse voltage



Radiant Pattern



Capacitance between terminals Vs. Reverse voltage

