

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

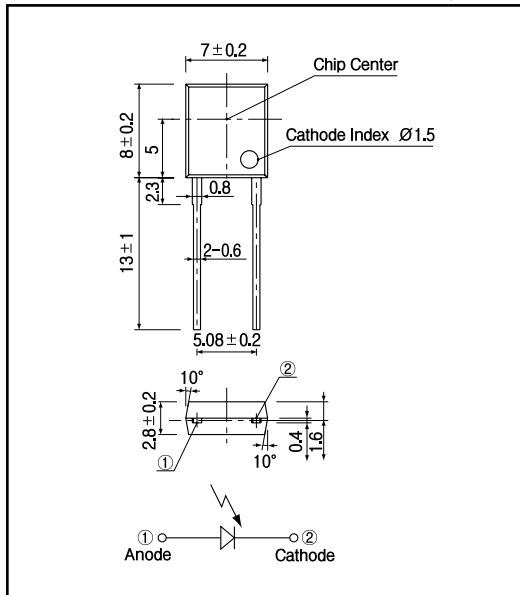
- Visible ray cut off mold type
- High output power
- High speed response

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)

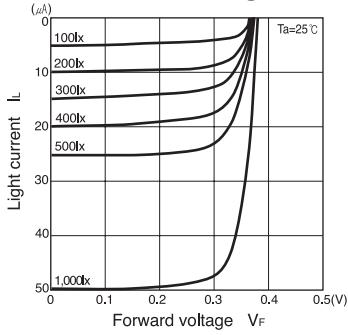
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Open circuit voltage	V _{oc}	E _v = 1,000lx ⁻²		0.38		V
Short circuit current	I _{sc}	E _v = 1,000lx ⁻²	24	50		μA
Curve factor	C.F.		0.55			—
Dark current	I _d	V _R = 10V			30	nA
Capacitance	C _t	V = 0V, f = 1MHz		49		pF
Temperature coefficient of V _{oc}	t			- 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

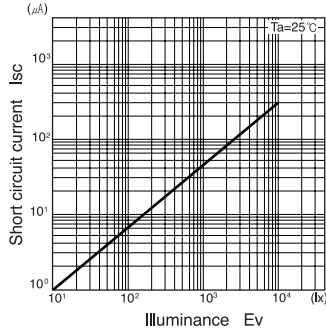
PIN Photodiode

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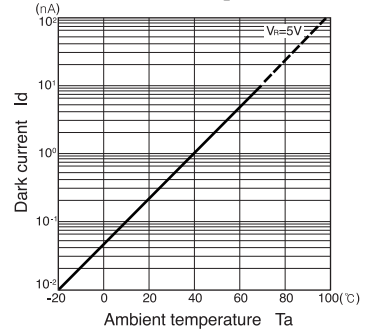
Light current Vs. Forward voltage



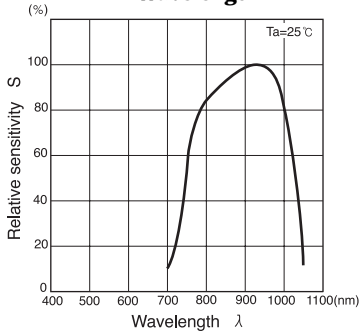
Short circuit current I_sc Vs. Illuminance



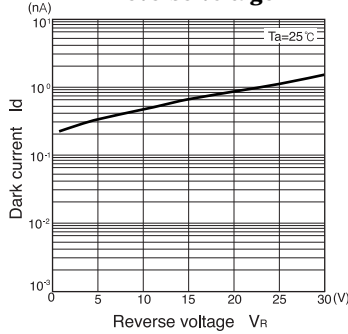
Dark current I_d Vs. Ambient temperature T_a



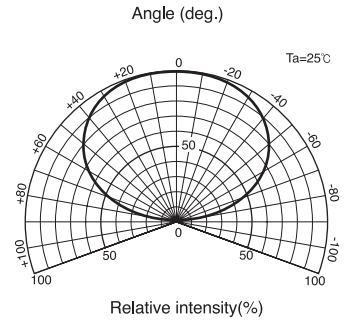
Relative sensitivity S Vs. Wavelength



Dark current I_d Vs. Reverse voltage V_R



Radiant Pattern



Capacitance between terminals C_t Vs. Reverse voltage V_R

