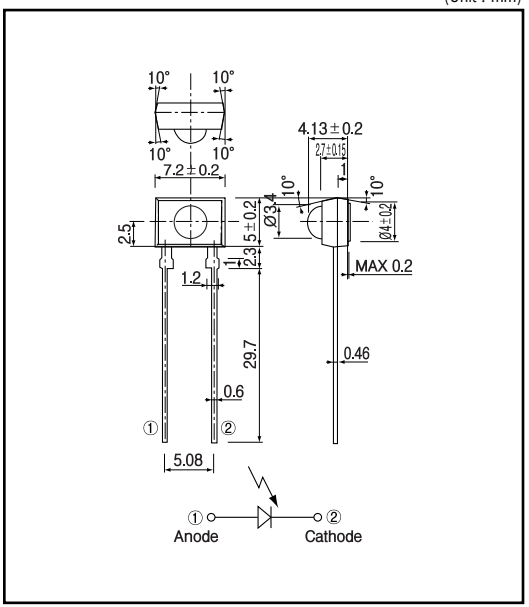
HP - 2FR4

The HP - 2FR4 is a high - speed silicon photodiode mounted in a sidelooking plastic package with daylight filter(IR - 88). The lensed package permits high - output.

DIMENSIONS (Unit : mm)



FEATURES

- High - output power for IRED
- High - speed response
- Lensed package
- Black plastic package for daylight filter
- Long leads (32mm)

APPLICATIONS

- Remote control sensors
- Optical switches

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

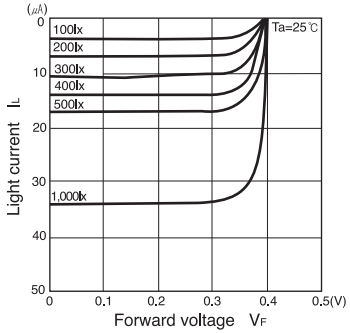
ELECTRO-OPTICAL CHARACTERISTICS (Ta=25℃)

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}		20	34		μA
Dark current	Id	V_R=10V			10	nA
Curve factor	C.F.		0.55			-
Capacitance	Ct	V=0V, f=1MHz		73		pF
Temperature coefficient of V_{OC}	αt			- 2.2		mV/℃
Temperature coefficient of I_{SC}	βt			0.18		%/℃
Spectral sensitivity	λ		880~1,050			nm
Peak wavelength	λp			940		nm
Half angle	Δ θ			±60		deg.

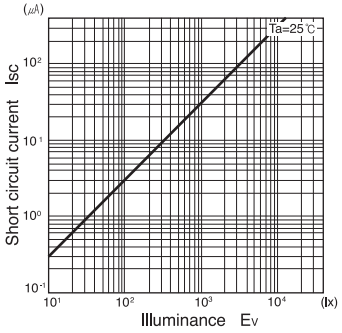
*2. Color temp.=2856K standard Tungsten lamp

HP - 2FR4

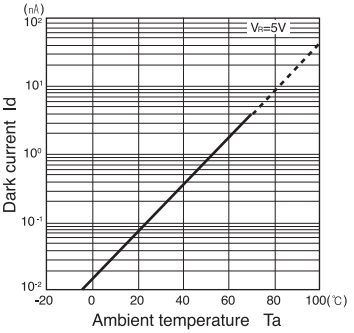
Light current Vs. Forward voltage



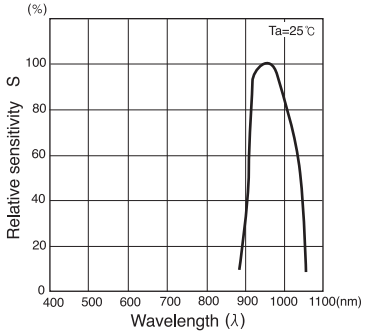
Short circuit current Vs. Illuminance



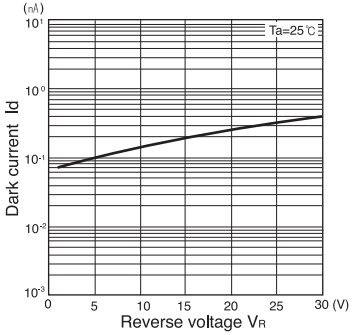
Dark current Vs. Ambient temperature



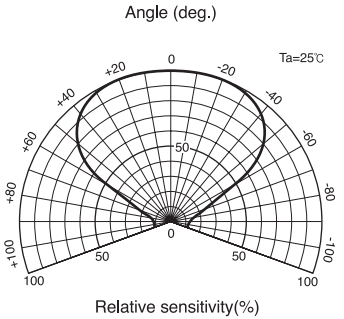
Relative sensitivity Vs. Wavelength



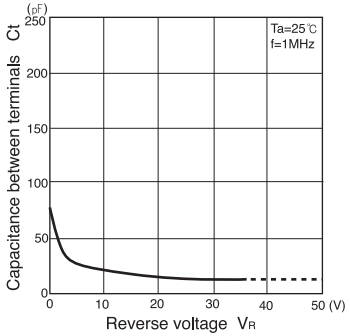
Dark current Vs. Reverse voltage



Radiant Pattern



Capacitance between terminals Vs. Reverse voltage



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