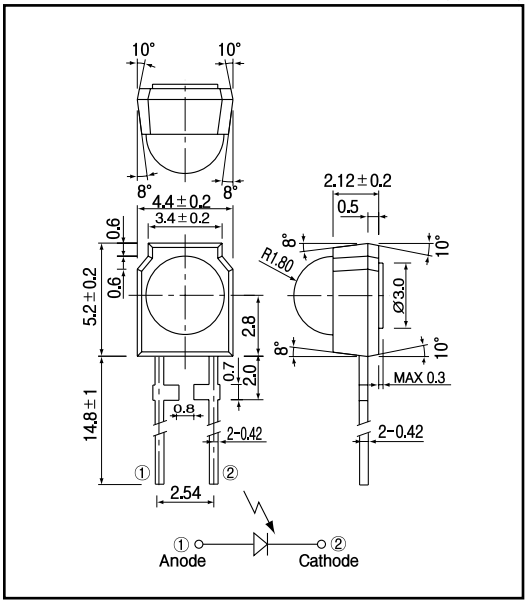
# HPI - 6FFR2

The HPI - 6FFR2 is a high - output, high - speed silicon photodiode mounted in a side - viewing plastic package with visible light cutoff filter. This photodiode is both compact and easy to mount.

**DIMENSIONS** (Unit : mm)




## FEATURES

- Compact visible ray cut off mold type
- High speed response

## APPLICATIONS

- Optical transmission
- Optic receiver modules

## 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 | | 40 | | μA |
| Curve factor | C.F. | | 0.55 | | | — |
| Dark current | Id | $V_R$=10V | | | 10 | nA |
| Capacitance | Ct | V=0V,f=1MHz | | 16 | | pF |
| Temperature coefficient of Voc | αt | | | −2.2 | | mV/℃ |
| Temperature coefficient of Isc | βt | | | 0.18 | | %/℃ |
| Spectral sensitivity | λ | | 700 1100 | | | nm |
| Peak wavelength | λp | | | 1,000 | | nm |
| Half angle | Δθ | | | ±35 | | deg. |

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

PIN Photodiode

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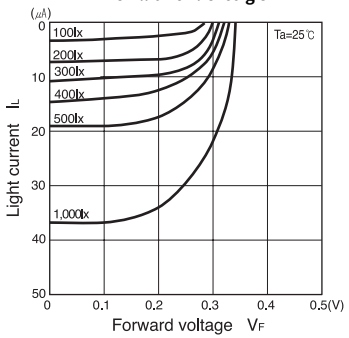
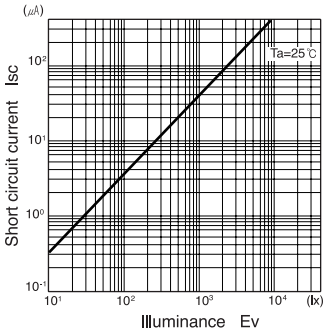
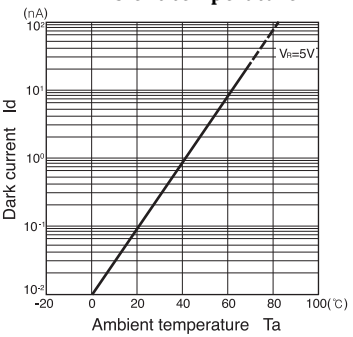
**Light current Vs. Forward voltage**



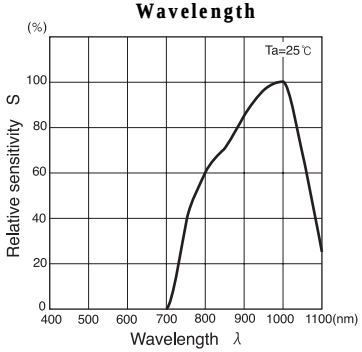

**Short circuit current Vs. Illuminance**



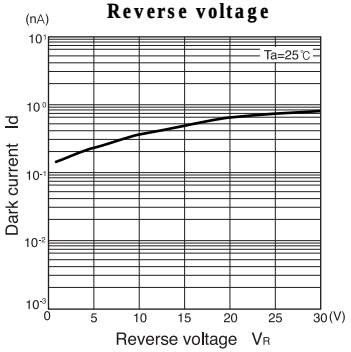

**Dark current Vs. Ambient temperature**



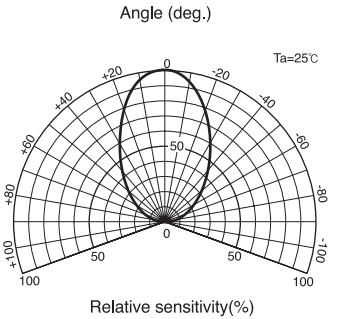

**Relative sensitivity Vs. Wavelength**




**Dark current Vs. Reverse voltage**




**Radiant Pattern**




**Capacitance between terminals Vs. Reverse voltage**