

## 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.

**FEATURES**

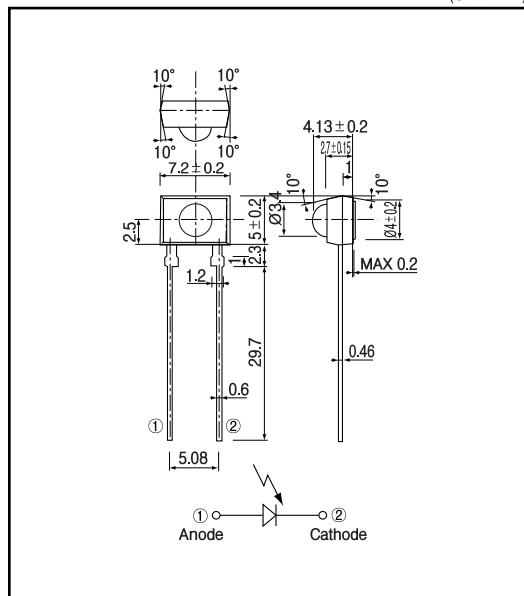
- High - output power for IRED
- High - speed response
- Lensed package
- Black plastic package for daylight filter
- Long leads (32mm)

**APPLICATIONS**

- Remote control sensors
- Optical switches

**DIMENSIONS**

(Unit : mm)

**MAXIMUM RATINGS**

(Ta=25 °C)

Item	Symbol	Rating	Unit
Reverse voltage	V <sub>R</sub>	35	V
Power dissipation	P <sub>D</sub>	150	mW
Operating temp.	T <sub>opr.</sub>	- 30 ~ +70	
Storage temp.	T <sub>stg.</sub>	- 40 ~ +80	
Soldering temp. <sup>**1</sup>	T <sub>sol.</sub>	260	

<sup>\*\*1</sup>. For MAX.5 seconds at the position of 2 mm from the package

**ELECTRO-OPTICAL CHARACTERISTICS**

(Ta=25 °C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Open circuit voltage	V <sub>oc</sub>	E <sub>v</sub> =1,000lx <sup>**2</sup>		0.38		V
Short circuit current	I <sub>sc</sub>		20	34		mA
Dark current	I <sub>d</sub>	V <sub>R</sub> =10V			10	nA
Curve factor	C.F.		0.55			-
Capacitance	C <sub>t</sub>	V=0V, f=1MHz		73		pF
Temperature coefficient of V <sub>oc</sub>	t			- 2.2		mV/°C
Temperature coefficient of I <sub>sc</sub>	t			0.18		%/°C
Spectral sensitivity			880 ~ 1,050			nm
Peak wavelength	λ			940		nm
Half angle				± 60		deg.

<sup>\*\*2</sup>. Color temp.=2856K standard Tungsten lamp

## Photo diodes

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