

HP - 2FR4

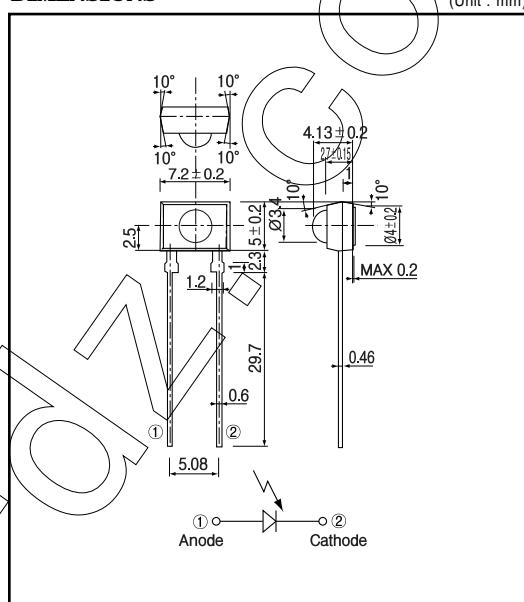
The HP - 2FR4 is a high - speed silicon photodiode mounted in a sidelooking plastic package with daylight filter(IR - 88). The lensed package permits high - output.

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**MAXIMUM RATINGS**

Item	Symbol	Rating	Unit
Reverse voltage	V_R	35	V
Power dissipation	P_D	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}	$E_v = 1,000 \text{lx}^{-2}$		0.38		V
Short circuit current	I_{sc}	$V_R = 10V$	20	34		mA
Dark current	I_d				10	nA
Curve factor	C.F.		0.55			-
Capacitance	C_t	$V=0V, f=1\text{MHz}$		73		pF
Temperature coefficient of V_{oc}	t			-2.2		mV/
Temperature coefficient of I_{sc}	t			0.18		%/
Spectral sensitivity			880 ~ 1,050			nm
Peak wavelength	λ_p			940		nm
Half angle				± 60		deg.

^{**2} Color temp. = 2856K standard Tungsten lamp

Photo diodes

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