

HP - 5FR4 · HP - 5FR3

The HP - 5FR3, and 5FR4 are high - output, high - speed silicon photodiodes mounted in sidelooking plastic packages with daylight filter.

FEATURES

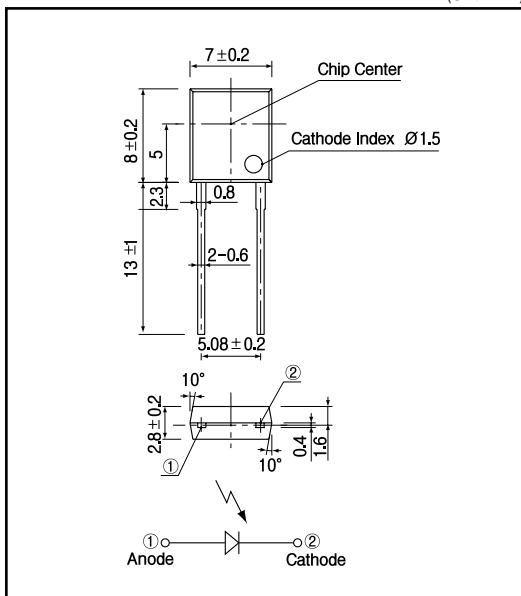
- High - output power for IRED
- High - speed response
- Wide angular response
- Relatively low - cost against metal can package
- Sidelooking plastic package with daylight filter

APPLICATIONS

- Remote control sensors
- Optical switches
- Photocouplers

DIMENSIONS

(Unit : mm)

**MAXIMUM RATINGS**

(Ta=25 °C)

Item	Symbol	Rating		Unit
		HP - 5FR3	HP - 5FR4	
Reverse voltage	V _R	35	35	V
Power dissipation	P _D	150	150	mW
Operating temp.	T _{opr.}	-30 ~ +70	-30 ~ +70	
Storage temp.	T _{stg.}	-40 ~ +70	-40 ~ +80	
Soldering temp. ¹⁾	T _{sol.}	260	260	

¹⁾ 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 _{oc}			0.38		V
Short circuit current	I _{sc}	E _v =1,000lx ²⁾	20	32		μA
Dark current	I _d	V _R =10V			30	nA
Curve factor	C.F.		0.55			-
Capacitance	C _t	V=0V, f=1MHz		175		pF
Temperature coefficient of V _{oc}	t			-2.2		mV/°C
Temperature coefficient of I _{sc}	t			0.18		%/°C
Spectral sensitivity			880~1,050			nm
Peak wavelength	λ			940		nm
Half angle				±70		deg.

²⁾ Color temp.=2856K standard Tungsten lamp

Photo diodes

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