

HPI - 2C · HPI - 2CR2

The HPI - 2C is a high - speed, high - output silicon PIN photodiode, mounted in a low profile ceramic package. The HPI - 2CR2 photodiode, with daylight filter, is available in the same package.

FEATURES

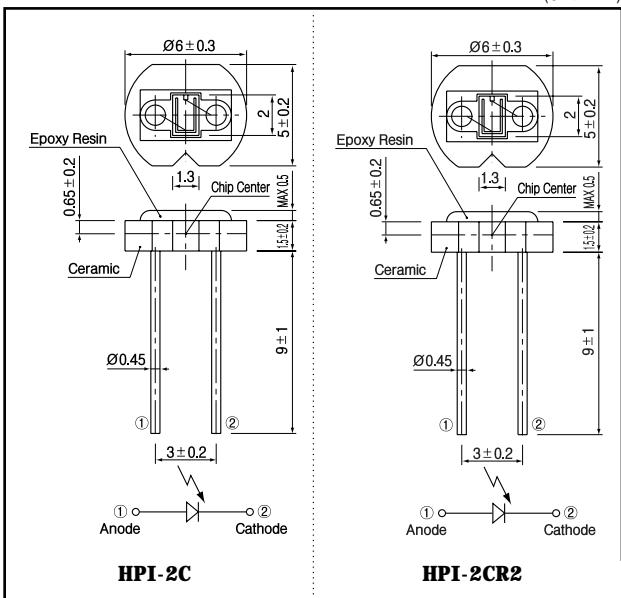
- High - output power
- High - speed response
- Low dark current
- Thin ceramic package ($t=1.5\text{mm}$)

APPLICATIONS

- Fiber optic communications
- Optical switches

DIMENSIONS

(Unit : mm)

**MAXIMUM RATINGS**

(Ta=25)

Item	Symbol	Rating	Unit
Reverse voltage	V _R	20	V
Power dissipation	P _D	100	mW
Operating temp.	T _{opr.}	- 20~+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	HPI - 2C			HPI - 2CR2			Unit.
			Min.	Typ.	Max.	Min.	Typ.	Max.	
Open circuit voltage	V _{oc}		0.38			0.3			V
Short circuit current	I _{sc}	E _v =1,000lx ²	14			12			μA
Sensitivity	S		0.4			0.4			A/W
Dark current	I _d	V _R =5V		0.1			0.1		μA
Curve factor	C.F.		0.55			0.55			-
Capacitance	C _t	V=0V, f=1MHz		20			20		pF
Temperature coefficient of V _{oc}	t			- 2.2			- 2.2		mV/°C
Temperature coefficient of I _{sc}	t			0.18			0.18		%/°C
Spectral sensitivity			450~1,050			700~1,050			nm
Peak wavelength	p			920			940		nm
Half angle				± 60			± 60		deg.

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

PIN Photodiode

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