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PIN Photodiode

急出货

KODENSHI

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.

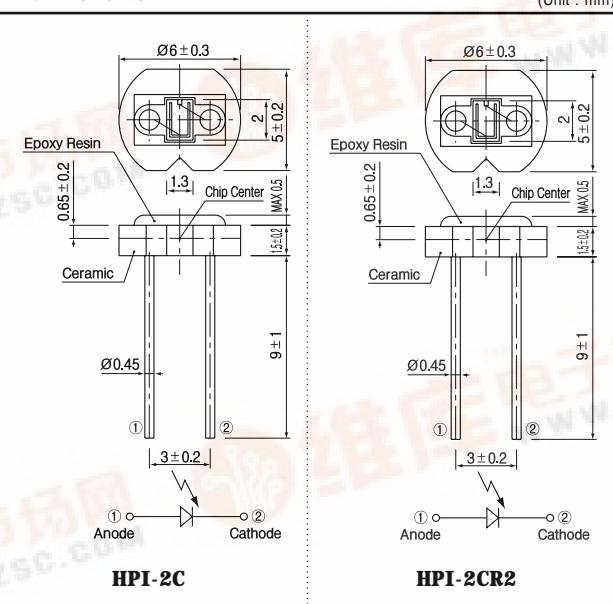
FEATURES

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

APPLICATIONS

- Fiber optic communications
- Optical switches

DIMENSIONS



MAXIMUM RATINGS

($T_a=25^\circ\text{C}$)

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. ^{**}	$T_{sol.}$	260	

^{*}1. For MAX.5 seconds at the position of 2 mm from the package

ELECTRO-OPTICAL CHARACTERISTICS

($T_a=25^\circ\text{C}$)

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}	$E_v = 1,000 \text{lx}^2$		14			12		μA
Sensitivity	S			0.4			0.4		A/W
Dark current	I_d	$V_R = 5\text{V}$			0.1			0.1	μA
Curve factor	C.F.		0.55			0.55			-
Capacitance	C_t	$V=0\text{V}, f=1\text{MHz}$		20			20		pF
Temperature coefficient of V_{oc}	t			-2.2			-2.2		$\text{mV/}^\circ\text{C}$
Temperature coefficient of I_{sc}	t			0.18			0.18		%/
Spectral sensitivity				450 ~ 1,050			700 ~ 1,050		nm
Peak wavelength	λ_p			920			940		nm
Half angle				± 60			± 60		deg.

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

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