

HPI - 1K1 · HPI - 1K3

The HPI - 1K1 and HPI - 1K3 are PIN photodiodes for fiber optic receivers, mounted in a durable, hermetically sealed TO - 18 metal can package, which offer high - speed response and high output. HPI - 1K1 cathode connected to metal case. Each HPI - 1K3 lead pin is isolated from metal case.

FEATURES

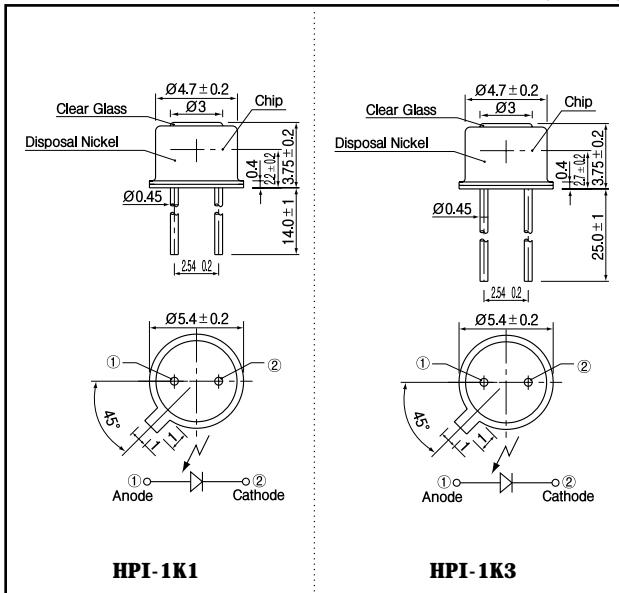
- High - output power
- High - speed response
- Durable
- High reliability in demanding environments
- Narrow angular response

APPLICATIONS

- Fiber optic communications
- Optical switches

DIMENSIONS

(Unit : mm)

**MAXIMUM RATINGS**

(Ta=25 °C)

Item	Symbol	Rating		Unit
		HPI - 1K1	HPI - 1K3	
Reverse voltage	V _R	40	40	V
Power dissipation	P _D	100	100	mW
Operating temp.	Toopr.	-30 ~ +100	-25 ~ +100	
Storage temp.	Tstg.	-40 ~ +110	-40 ~ +110	
Soldering temp. ¹⁾	Tsol.	260	260	

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

(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		10		µA
Sensitivity	S			0.4		A/W
Dark current	I _d	V _R =1V			10	nA
Curve factor	C.F.		0.55			-
Capacitance	C _t	V=0V, f=1MHz		10		pF
Temperature coefficient of V _{oc}	t			-2.2		mV/°C
Temperature coefficient of I _{sc}	t			0.18		%/°C
Spectral sensitivity			450 ~ 1,050			nm
Peak wavelength	λ			920		nm
Half angle				±50		deg.

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

PIN Photodiode

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