

HPI - 1KL5

The HPI - 1KL5, a silicon PIN photodiode mounted in durable, hermetically sealed TO - 18 metal can package, provides years of reliable performance even under demanding conditions such as use outdoors.

FEATURES

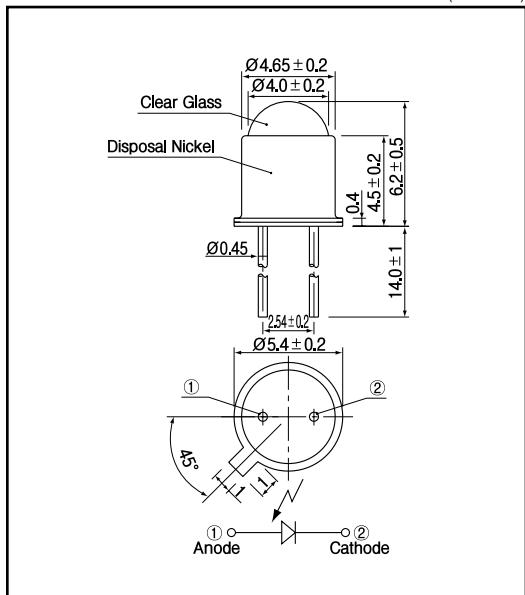
- TO - 18 can type with glass lens
- High speed response
- High reliability

APPLICATIONS

- Optical transmissions
- Optical switches
- Precise optical equipment

DIMENSIONS

(Unit : mm)

**MAXIMUM RATINGS**

(Ta=25 °C)

Item	Symbol	Rating	Unit
Reverse voltage	V _R	40	V
Power dissipation	P _D	100	mW
Operating temp.	T _{opr.}	- 25 + 100	
Storage temp.	T _{stg.}	- 40 + 110	
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 °C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Open circuit voltage	V _{oc}	E _V = 1,000lx ²		0.4		V
Short circuit current	I _{sc}	E _V = 1,000lx ²	65	85		μA
Curve factor	C.F.		0.55			—
Dark current	I _d	V _R = 5V			0.1	μA
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 - 1050			nm
Peak wavelength	λ			920		nm
Half angle		I = 20mA		± 6		deg.

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

PIN Photodiode

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