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KODENSHI

PIN Photodiode

HPI - 210

The HPI - 210, 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

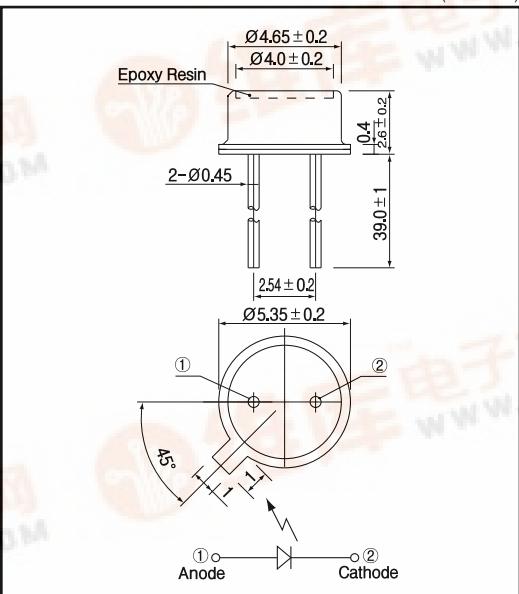
- High speed response
- Wide angular response $\pm 65\text{deg.}$
- Low profile $h=2.6\text{mm}$

APPLICATIONS

- Optical fibers
- Optical Switches

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25)

Item	Symbol	Rating	Unit
Reverse voltage	V _R	30	V
Operating temp.	T _{opr.}	- 20 + 80	
Storage temp.	T _{stg.}	- 20 + 80	
Soldering temp. ¹⁾	T _{sol.}	240	

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

ELECTRO-OPTICAL CHARACTERISTICS

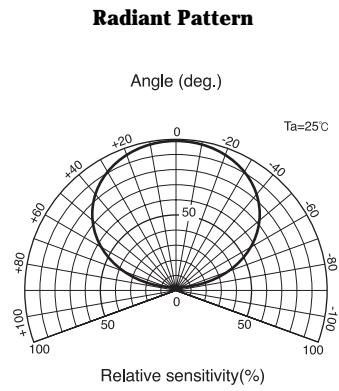
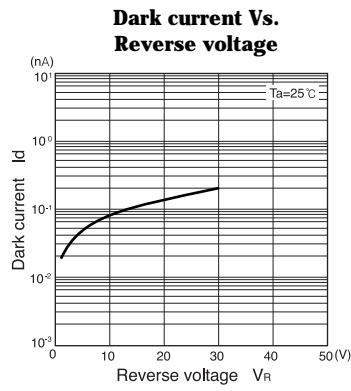
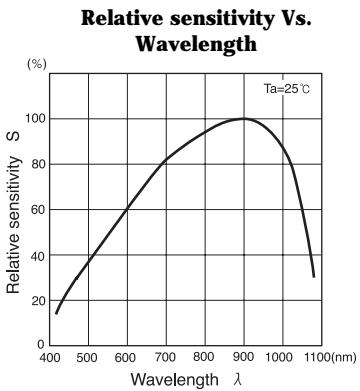
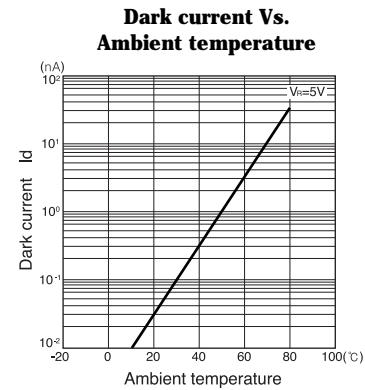
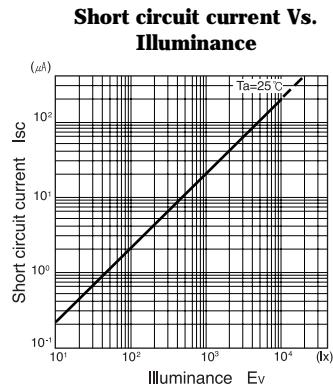
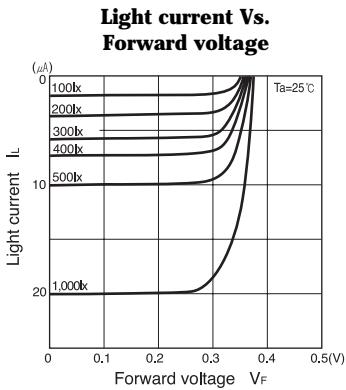
(Ta=25)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Open circuit voltage	V _{oc}	$E_v = 1,000\text{lx}^{-2}$		0.35		V
Short circuit current	I _{sc}	$E_v = 1,000\text{lx}^{-2}$		20		μA
Curve factor	C.F.			—		—
Dark current	I _d	$V_R = 20V$			10	nA
Capacitance	C _t	$V_R = 3V, f = 1\text{MHz}$		16		pF
Temperature coefficient of V _{oc}	t			—		mV/°C
Temperature coefficient of I _{sc}	t			—		%/°C
Spectral sensitivity	p			450 1050		nm
Peak wavelength				900		nm
Half angle				± 65		deg.

²⁾Color temp. = 2856K standard Tungsten lamp

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Capacitance between terminals Vs. Reverse voltage

