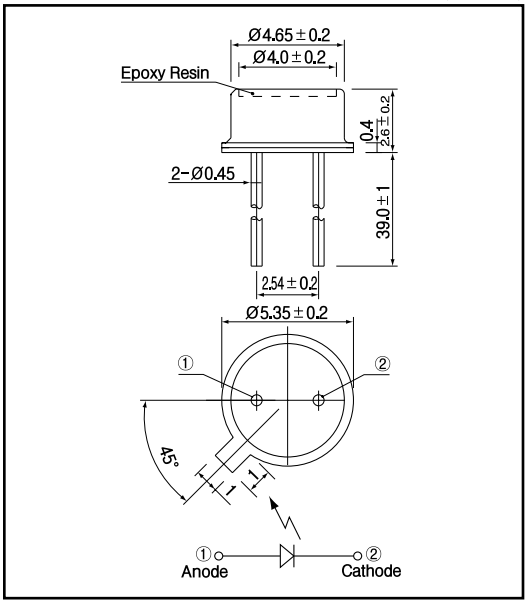
HPI - 210

The HPI - 210, a silicon PIN photodiode mounted in durable,hermetically sealed TO - 18 metal can package, provides yearsof reliable performance even under demanding conditions such as use outdoors.

DIMENSIONS (Unit : mm)



FEATURES

- High speed response
- Wide angular response Δ θ±65deg.
- Low profile h=2.6mm

APPLICATIONS

- Optical fibers
- Optical Switches

MAXIMUM RATINGS (Ta=25℃)

Item	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Operating temp.	Topr.	−20 +80	℃
Storage temp.	Tstg.	−20 +80	℃
Soldering temp. *1	Tsol.	240	℃

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

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25℃)

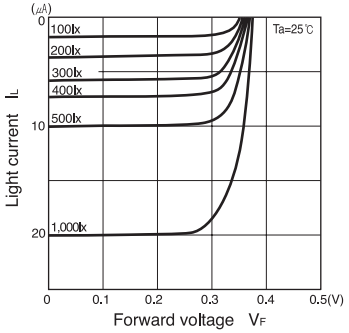
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Open circuit voltage	V_{OC}	E_V=1,000lx *2		0.35		V
Short circuit current	I_{SC}	E_V=1,000lx *2		20		μA
Curve factor	C.F.			—		—
Dark current	Id	V_R=20V			10	nA
Capacitance	Ct	V_R=3V,f=1MHz		16		pF
Temperature coefficient of Voc	αt			—		mV/℃
Temperature coefficient of Isc	βt			—		%/℃
Spectral sensitivity	λ			450 1050		nm
Peak wavelength	λp			900		nm
Half angle	Δ θ			±65		deg.

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

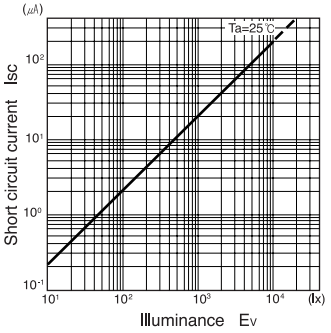
PIN Photodiode

HPI - 210

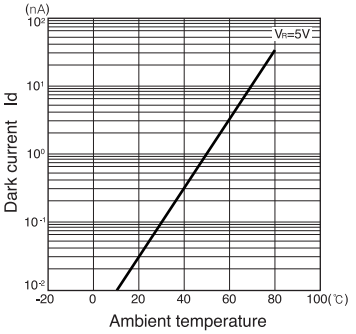
Light current Vs. Forward voltage



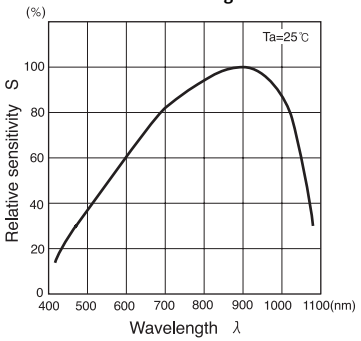
Short circuit current Vs. Illuminance



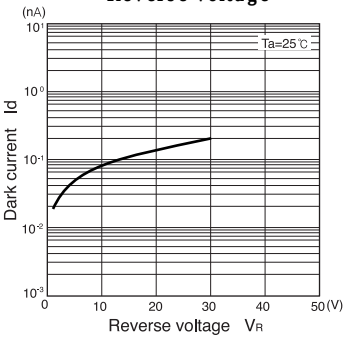
Dark current Vs. Ambient temperature



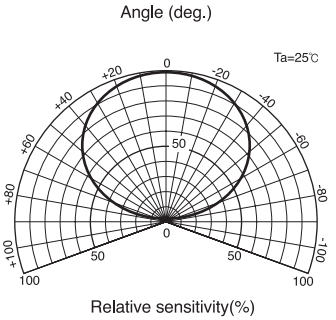
Relative sensitivity Vs. Wavelength



Dark current Vs. Reverse voltage



Radiant Pattern



Capacitance between terminals Vs. Reverse voltage