

Si Photodiodes

KPD1201H

Characteristics

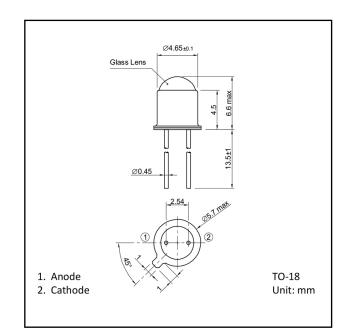
- Hermetic seal type for high reliability uses
- Sharp directivity

Applications

- Optical switches
- Optical encoders
- Pulse detectors
- Sensors and industrial controls

Package

• TO-CAN





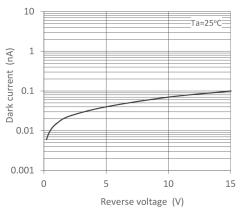
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V _R	15	V	
			null	
Reverse Current	I _R	0.5	mA	
			null	
Forward current	I _F	10	mA	
			null	-
Operating temperature	T _{opr}	-40 to +125		Avoid dew condensation
Storage temperature	T _{stg}	-55 to +150		Avoid dew condensation

Electrical and Optical characteristics (Ta=25 unless otherwise noted)

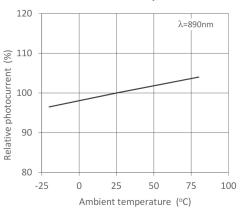
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Active area	S	-	0.92x0.92	-	mm2	_
					null	-
Sensitive wavelength		400	880(p)	1100	nm	p=Peak wavelength
					null	
Open circuit voltage	V _{op}	-	400	-	mV	1000lx @2856k
Short Circuit Current	I _{sh}	-	60	-	μA	1000lx @2856k
Dark current	Ι _D	-	-	1	nA	V _R =5V
					null	
Terminal capacitance	C _t	-	50	-	pF	V _R =0V f=1MHz
					null	
Half angle	2	-	23	-	deg.	-

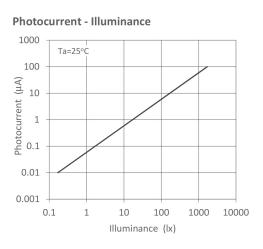




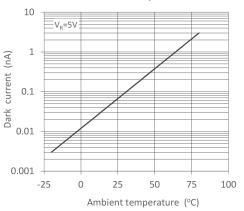
Dark Current - Reverse Voltage

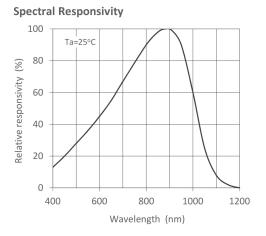
Photocurrent - Ambient Temperature



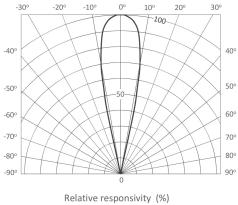








Directivity





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1724 Shimotsuboyama, Shimotsuke-shi, Tochigi 323-0194, Japan TEL:+81-285-39-7950 https://www.dexerials.jp/en/