

Si Photodiodes

KPD1801H

Characteristics

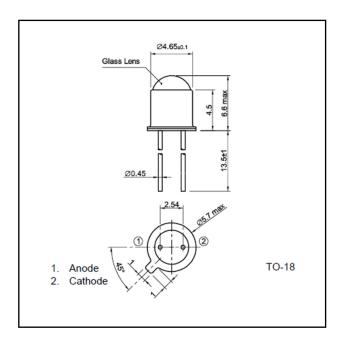
- High sensitivity provided by glass lens
- Sharp directivity
- Hermetic seal type for high reliability uses

Applications

- Optical switches
- Optical encoders
- Remote controls
- Sensors and industrial controls

Package

• TO-CAN





Absolute Maximum Ratings

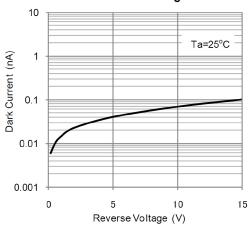
Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V _R	10	٧	
			null	-
Reverse Current	I _R	0.5	mA	
			null	-
Forward current	I _F	10	mA	
			null] -
Operating temperature	T _{opr}	-40 to +125		Avoid dew condensation
Storage temperature	T _{stg}	-55 to +150		Avoid dew condensation

Electrical and Optical characteristics

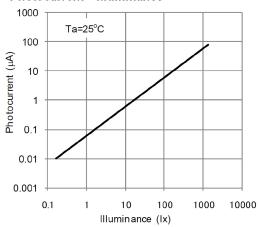
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Active area	S	-	1.30x1.60	-	mm2	
					null	-
Sensitive wavelength		400	840(p)	1100	nm	- p=Peak wavelength
					null	
Open circuit voltage	V _{op}	ı	450	-	mV	1000lx @2856k
Short Circuit Current	I _{sh}	-	70	-	μΑ	1000lx @2856k
Dark current	I _D	-	-	1	nA	V _R =5V
					null	
Terminal capacitance	C _t	-	250	-	pF	V _R =0V f=1MHz
					null	
Half angle	2	-	34	-	deg.	-



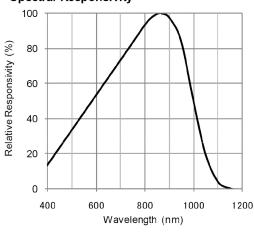
Dark Current - Reverse Voltage



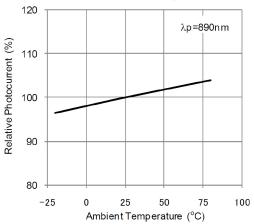
Photocurrent - Illuminance



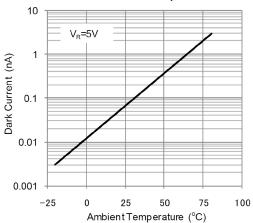
Spectral Responsivity



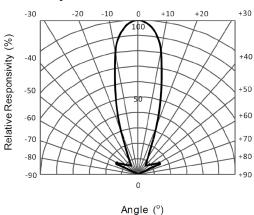
Photocurrent - Ambient Temperature



Dark Current - Ambient Temperature



Directivity



Specifications are subject to change without notice.



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