

Si Photodiodes

KPD1803H

Characteristics

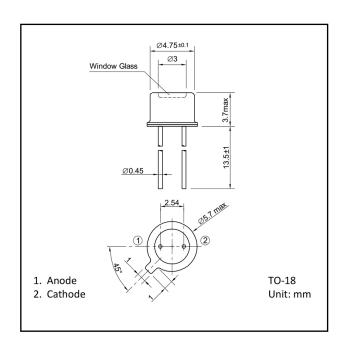
- Hermetic seal type for high reliability uses
- Flat-glass window

Applications

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

Package

• TO-CAN







Absolute Maximum Ratings

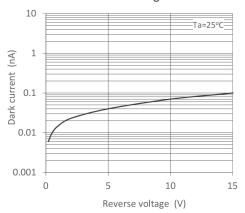
Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V _R	10	٧	
			null	-
Reverse Current	I _R	0.5	mA	
			null] -
Forward current	I _F	10	mA	
			null] -
Operating temperature	T _{opr}	-40 to +125		Avoid dew condensation
Storage temperature	T _{stg}	-55 to +125		Avoid dew condensation

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

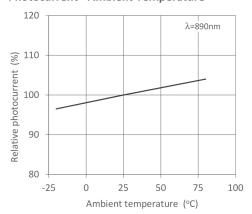
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Active area	S	-	1.30x1.60	-	mm2	
					null] -
Sensitive wavelength		400	840(p)	1100	nm	p=Peak wavelength
					null	
Open circuit voltage	V _{op}	-	450	-	mV	1000lx @2856k
Short Circuit Current	I _{sh}	-	17	-	μA	1000lx @2856k
Dark current	I _D	-	-	1	nA	- V _R =5V
					null	
Terminal capacitance	C _t	-	250	-	pF	V _R =0V f=1MHz
					null	
Half angle	2	-	95	-	deg.	-



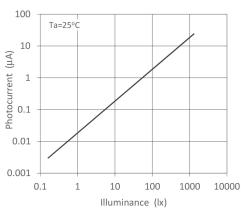
Dark Current - Reverse Voltage



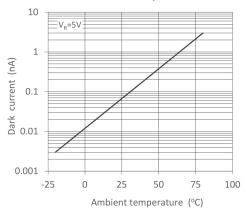
Photocurrent - Ambient Temperature



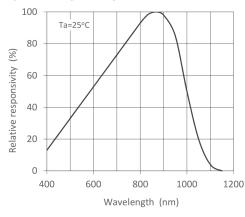
Photocurrent - Illuminance



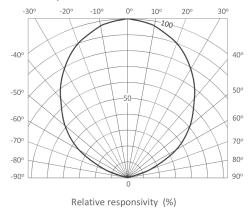
Dark Current - Ambient Temperature



Spectral Responsivity



Directivity





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