

Si Photodiodes

KPD1203K

Characteristics

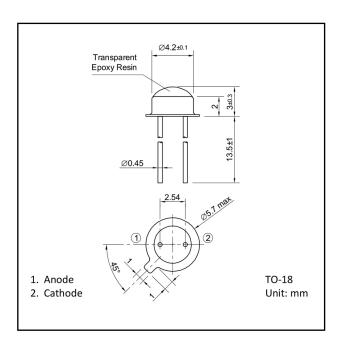
- Transparent epoxy potting
- High sensitivity
- Broad directivety

Applications

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

Package

• STEM





Absolute Maximum Ratings

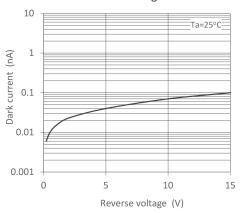
Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V _R	15	٧	
			null	-
Reverse Current	I _R	0.5	mA	
			null] -
Forward current	I _F	10	mA	
			null] -
Operating temperature	T _{opr}	-20 to +100		Avoid dew condensation
Storage temperature	T _{stg}	-30 to +100		Avoid dew condensation

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

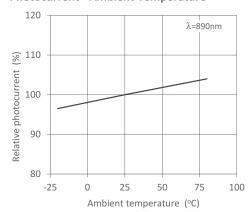
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Active area	S	-	0.92x0.92	-	mm2	
					null	-
Sensitive wavelength		400	880(p)	1100	nm	p=Peak wavelength
					null	
Open circuit voltage	V _{op}	=	400	=	mV	1000lx @2856k
Short Circuit Current	I _{sh}	-	11	-	μA	1000lx @2856k
Dark current	I _D	-	-	1	nA	- V _R =5V
					null	
Terminal capacitance	C _t	-	50	-	pF	V _R =0V f=1MHz
					null	
Half angle	2	-	140	-	deg.	-



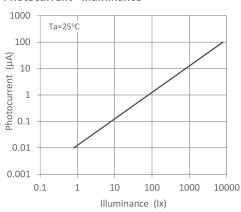
Dark Current - Reverse Voltage



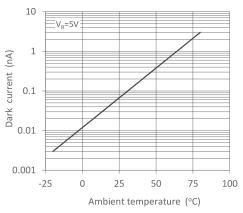
Photocurrent - Ambient Temperature



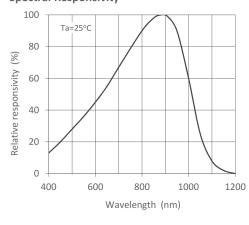
Photocurrent - Illuminance



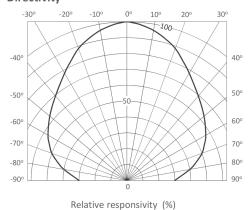
Dark Current - Ambient Temperature



Spectral Responsivity



Directivity





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