

# Si Photodiodes

# KPD101M32

### Characteristics

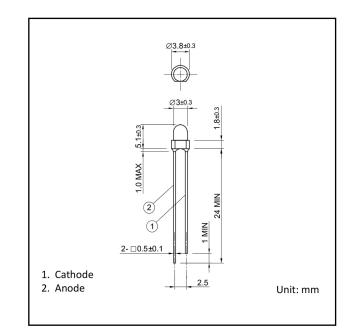
- Transparent epoxy mold
- High sensitivity

### Applications

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

#### Package

• MOLD





## Absolute Maximum Ratings

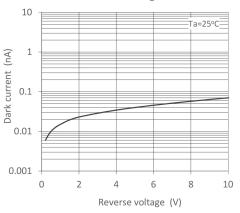
Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V <sub>R</sub>	10	V	
			null	-
Reverse Current	I <sub>R</sub>	1	mA	
			null	-
Forward current	I <sub>F</sub>	10	mA	
			null	-
Operating temperature	T <sub>opr</sub>	-20 to +80		Avoid dew condensation
Storage temperature	T <sub>stg</sub>	-20 to +100		Avoid dew condensation
Soldering temperature	T <sub>sol</sub>	260		Soldering time less than 5 seconds

# Electrical and Optical characteristics

(Ta=25 unless otherwise noted)

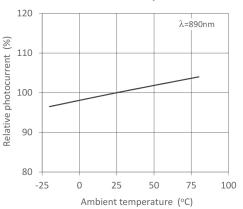
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Active area	S	-	0.81x0.81	-	mm2	
					null	-
Sensitive wavelength		400	850( p)	1100	nm	p=Peak wavelength
					null	
Open circuit voltage	V <sub>op</sub>	-	400	-	mV	1000lx @2856k
Short Circuit Current	l <sub>sh</sub>	-	16	-	μA	1000lx @2856k
Dark current	۱ <sub>D</sub>	-	-	10	nA	V <sub>R</sub> =5V
					null	
Terminal capacitance	Ct	-	14	-	pF	V <sub>R</sub> =5V f=1MHz
					null	
Half angle	2	-	90	-	deg.	-



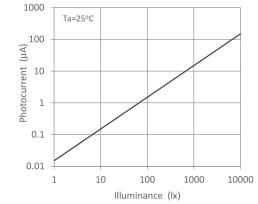


#### Dark Current - Reverse Voltage

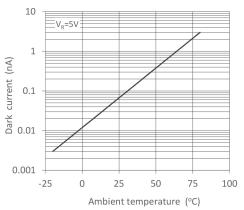
**Photocurrent - Ambient Temperature** 

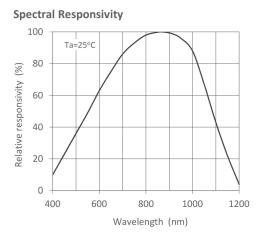




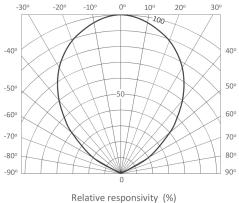








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1724 Shimotsuboyama, Shimotsuke-shi, Tochigi 323-0194, Japan TEL:+81-285-39-7950 https://www.dexerials.jp/en/