

# Si Photodiodes

# KPD101M51

#### Characteristics

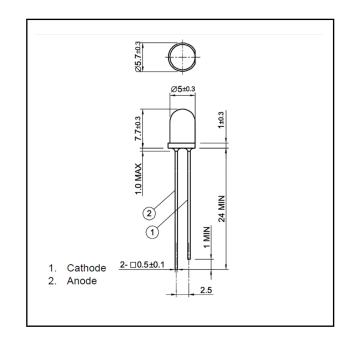
- Transparent epoxy mold
- High sensitivity

# Applications

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

#### Package

• MOLD





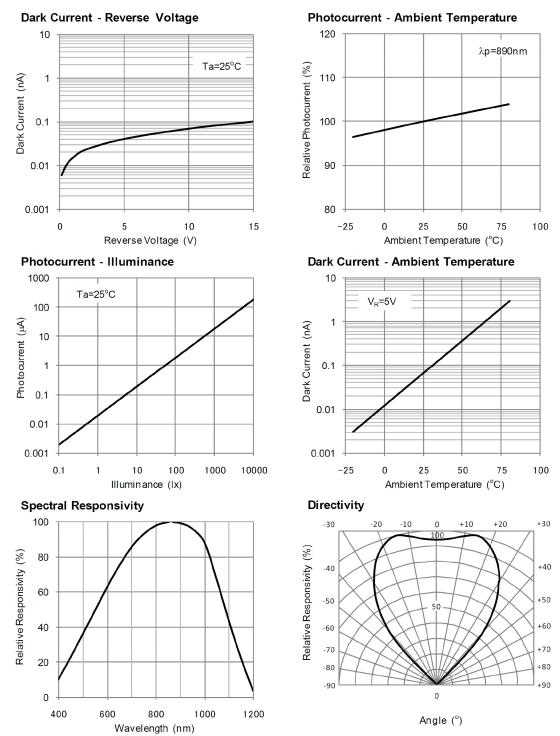
# Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V <sub>R</sub>	10	V	-
Reverse Current	I <sub>R</sub>	1	mA	-
Forward current	١ <sub>F</sub>	10	mA	-
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

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Active area	S	-	0.81x0.81	-	mm2	-
Sensitive wavelength		400	850( p)	1100	nm	p=Peak wavelength
Open circuit voltage	V <sub>op</sub>	-	400	-	mV	1000lx @2856k
Short Circuit Current	I <sub>sh</sub>	-	19	-	μA	1000lx @2856k
Dark current	I <sub>D</sub>	-	-	10	nA	V <sub>R</sub> =5V
Terminal capacitance	Ct	-	14	-	pF	V <sub>R</sub> =5V f=1MHz
Half angle	2	-	76	-	deg.	-





Specifications are subject to change without notice.



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