

Si Photodiodes

KPD104M32

Characteristics

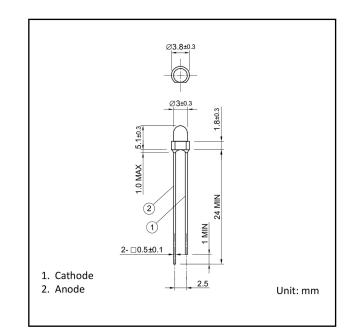
- Transparent epoxy mold
- High sensitivity

Applications

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

Package

• MOLD





Absolute Maximum Ratings

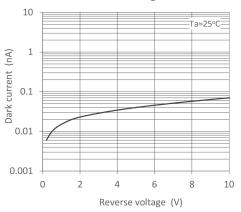
Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V _R	10	V	
			null	-
Reverse Current	I _R	1	mA	
			null	-
Forward current	I _F	10	mA	
			null	-
Operating temperature	T _{opr}	-20 to +80		Avoid dew condensation
Storage temperature	T _{stg}	-20 to +100		Avoid dew condensation
Soldering temperature	T _{sol}	260		Soldering time less than 5 seconds

Electrical and Optical characteristics

(Ta=25 unless otherwise noted)

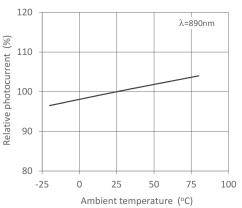
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Active area	S	-	0.81x0.81	-	mm2	
					null	-
Sensitive wavelength		400	850(p)	1100	nm	p=Peak wavelength
					null	
Open circuit voltage	V _{op}	-	400	-	mV	1000lx @2856k
Short Circuit Current	l _{sh}	-	10	-	μA	1000lx @2856k
Dark current	۱ _D	-	-	10	nA	V _R =5V
					null	
Terminal capacitance	Ct	-	14	-	pF	V _R =5V f=1MHz
					null	
Half angle	2	-	70	-	deg.	-

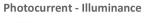


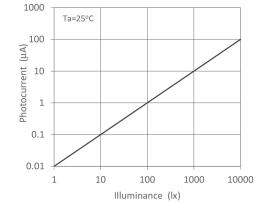


Dark Current - Reverse Voltage

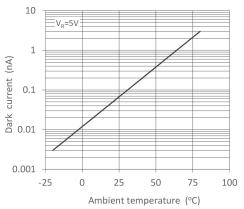
Photocurrent - Ambient Temperature

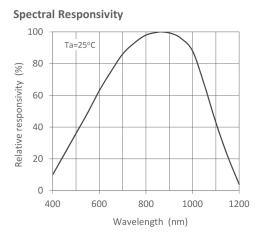




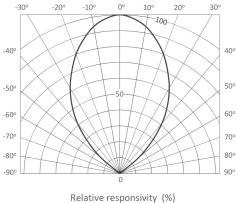








Directivity





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