

# KP-M InGaAs Photodiodes for Monitoring KPDE030S-A

### Characteristics

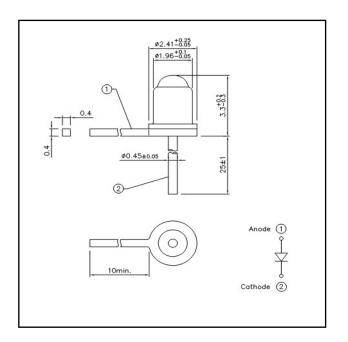
- Small size for high density packaging
- Low capacitance and high speed with a PIN structure
- Low dark current
- High reliability

# **Applications**

• Light monitoring

### Package

• TO-CAN





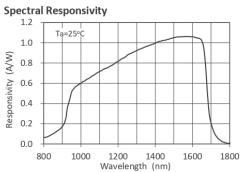
# Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	V <sub>R</sub>	20	V	-
Maximum optical power input	P <sub>imax</sub>	30	mW	-
Forward current	I <sub>F</sub>	10	mA	-
Operating temperature	T <sub>opr</sub>	-40 to +85		Avoid dew condensation
Storage temperature	T <sub>stg</sub>	-40 to +85		Avoid dew condensation

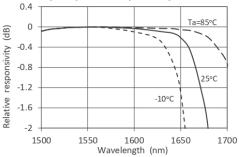
# Electrical and Optical characteristics (Ta=25 unless otherwise noted)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Active area	S	-	300	-	μm	-
Sensitive wavelength		900	-	1700	nm	-
Bandwidth	BW	-	0.6	-	GHz	R <sub>L</sub> =50 P <sub>i</sub> =-10dBm V <sub>R</sub> =5V
Responsivity	R	0.8 0.9	-	-	A/W	V <sub>R</sub> =5V =1310nm V <sub>R</sub> =5V =1550nm
Dark current	I <sub>D</sub>	-	-	600	pA	V <sub>R</sub> =5V
Total capacitance	C <sub>t</sub>	-	-	6	pF	V <sub>R</sub> =5V f=1MHz





## **Uniformity of Spectral Responsivity**





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