

## KP-M InGaAs Photodiodes for Monitoring KPDE008S-A

### Characteristics

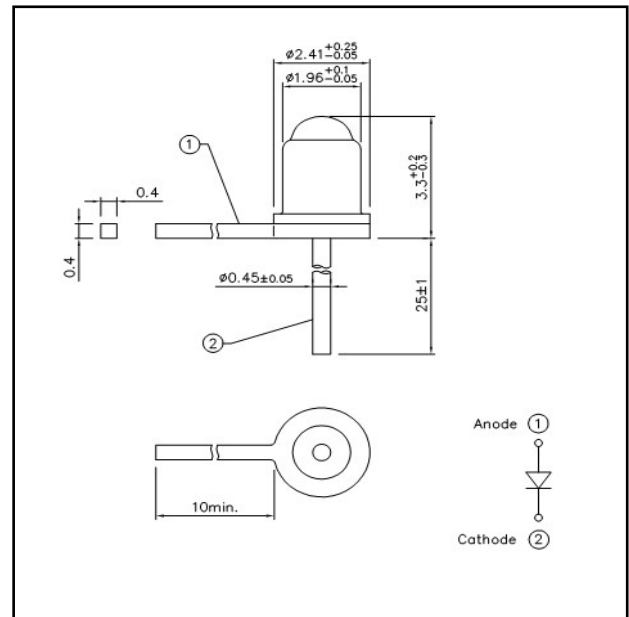
- Small size for high density packaging
- Low capacitance and high speed with a PIN structure
- Low dark current
- High reliability

### Applications

- Light monitoring

### Package

- TO-CAN



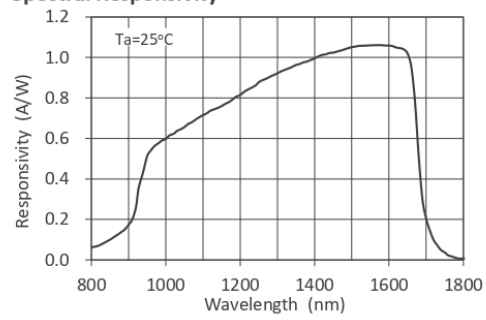
## Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	Conditions
Reverse voltage	$V_R$	20	V	-
Maximum optical power input	$P_{imax}$	10	mW	-
Forward current	$I_F$	10	mA	-
Operating temperature	$T_{opr}$	-40 to +85		Avoid dew condensation
Storage temperature	$T_{stg}$	-40 to +85		Avoid dew condensation

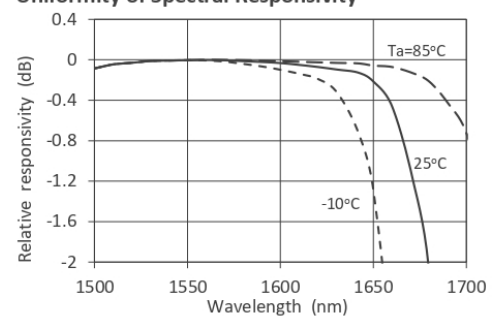
## Electrical and Optical characteristics (Ta=25 unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Active area	S	-	80	-	$\mu\text{m}$	-
Sensitive wavelength		900	-	1700	nm	-
Bandwidth	BW	-	2	-	GHz	$R_L=50$ $P_i=-10\text{dBm}$ $V_R=5\text{V}$
Responsivity	R	0.8 0.9	-	-	A/W	$V_R=5\text{V}$ =1310nm $V_R=5\text{V}$ =1550nm
Dark current	$I_D$	-	-	160	pA	$V_R=5\text{V}$
Total capacitance	$C_t$	-	-	1.1	pF	$V_R=5\text{V}$ f=1MHz

**Spectral Responsivity**



**Uniformity of Spectral Responsivity**



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