

# KMIP3-C425NS

## Description

**KMIP3-C425NC** is InGaAs PIN Photodiode with □ 250 μm active area in Φ3.0mm ceramic pkg.  
It is recommended for optical data communication and power monitoring.

## Features

- Front illuminated planar PIN-PD
- Low capacitance and low dark current
- Ceramic pkg with Φ3.0mm resin dome.
- High reliability and environmental endurance
- Wide operating wavelength range from 1.1μm to 1.6μm

## Applications

- Optical Data Communications
- Optical power monitoring

## Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Reverse Voltage	$V_R$	20	V
Maximum Optical Power Input	$P_{max}$	30	mW
Forward Current	$I_F$	50	mA
Operating Temperature	$T_{opr}$	-40 ~ +85	°C
Storage Temperature	$T_{stg.}$	-40 ~ +100	°C
Soldering Temperature *1	$T_{sol.}$	260	°C

\*1 : Soldering Time  $\leq$  10 seconds (at a distance of 1mm from the package)

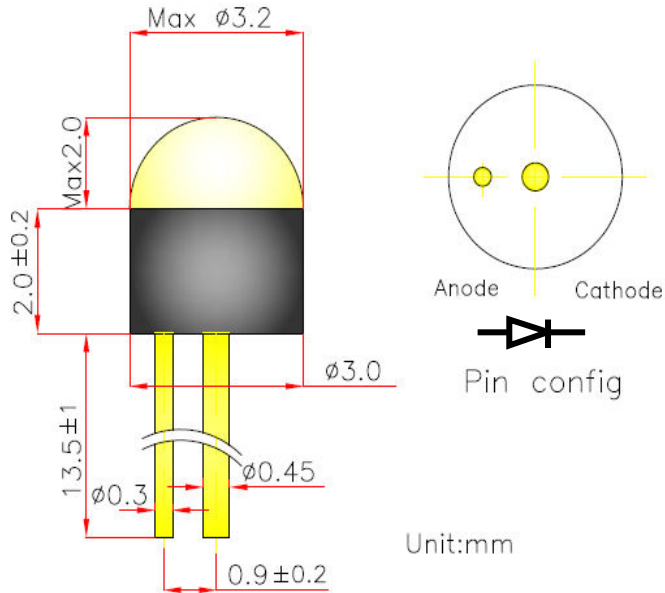
## Electro-Optical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Active area	D		□ 250		μm	
Dark Current	$I_D$			1.0	nA	@ $V_R=5V$ , 25°C
Responsivity	S	0.85			mA/mW	@ $V_R=5V$ , 25°C
		0.90				
3dB Cut off frequency	BW		0.6	-	GHz	@ $V_R=5V$ , $R_L=50\Omega$
Capacitance	$C_p$		5	8	pF	@ $V_R=5V$ , $f=1MHz$

\* These specifications are subject to change without notice.

**KMIP3-C425NS**

**Outline Drawing**



**Ordering information**

KMIP	Pin type -	PKG Method	PKG type	Active Size	Pin Config.
KODENSHI Mini CAN InGaAs PIN PD	1 : 1Pin	F : Cap with Flat Window	2 : Ø2	5: Ø50um	A:Cathod Common
	2 : 2Pin	B : Cap with Ball lens	3 : Ø2.96	8: Ø75um	B:Anode Common
	3 : 2Pin Isolated	L : Longcap with Ball lens	4 : Ø3.0	25: □250um	C:CASE GND
		C : Ceramic Dome			D:CASE Anode
					N: Normal

Available now

Lead Form'g
S : straight lead
C : center lead form
L : side lead form