KMIP2-L225DL

Description

The **KMIP2-L225DL** is InGaAs PIN Photodiode has the cap with only Ø1.96mm . and less than 3.5mm in hight. Stem types of 2-leads(KMIP2) and 1-lead(KMIP1)are available. The flat window type or a pigtail type also availabl It is recommended for optical data communication and power monitoring.

Features

- Front illuminated planar PIN-PD
- Low capacitance and low dark current
- Hermetically sealed package with Ø1.96 cap
- High reliability and environmental endurance and the cap height is less than 3.5mm
- Wide operating wavelength range from 1.1μm to 1.6μm

Applications

- Optical Data Communications
- Optical power monitoring

Absolute Maximum Ratings

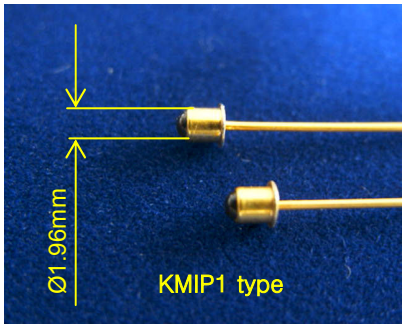
Parameter	Symbol	Ratings	Unit
Reverse voltage	V_R	20	V
Maximun Optical Power Input	P_{max}	30	mW
Forward Current	I_F	10	mA
Operating Temperature	T_{opr}	-40 ~ +85	℃
Storage Temperature	$T_{stg.}$	-40 ~ +85	℃
Soldering Temperature *1	$T_{sol.}$	260	℃

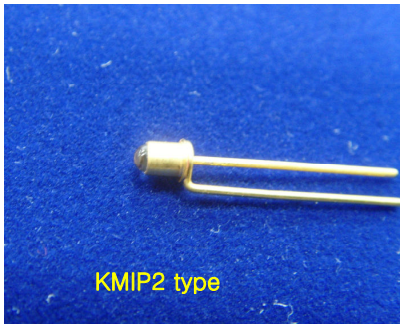
*1 : Soldering Time ≤ 10 seconds (At a distance of 1 mm from the package).

Electro-Optical Characteristics

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Active diameter		Sq		□250		um	
Dark Current		I_D		0.1	1.0	nA	@ V_R=5V, 25℃
Responsivity	1.31um	R	0.80			mA/mW	@ V_R=5V, 25℃
	1.55um		0.90				
3dB Cut off frequency		BW		0.6		GHz	@V_R=5, RL=50Ω
Total Capacitance		Cd			7	pF	@ V_R=5V, 25℃

* These specifications are subject to change without notice.





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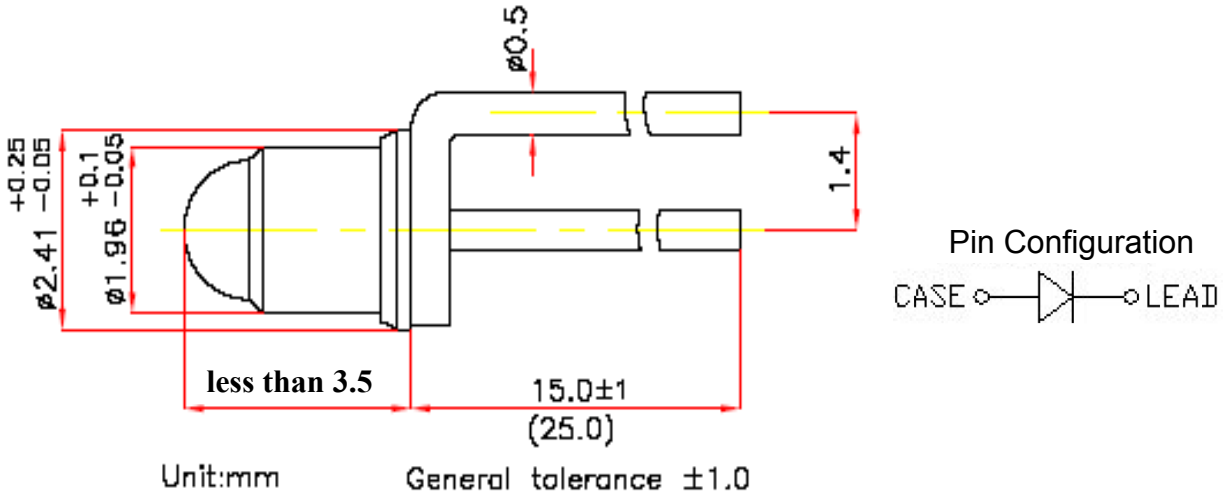
Outline Drawing



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