

KOP-1021A

Features

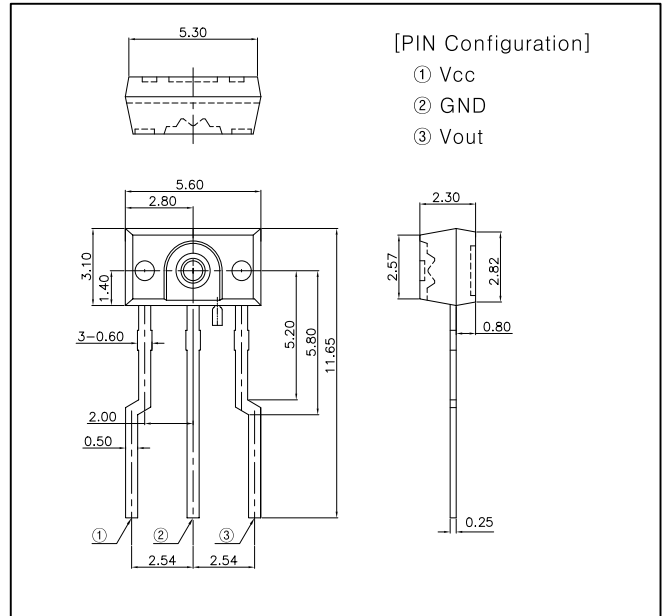
- High PD Sensitivity Optimized for Red Light
- Data Rate between 100Kbps and 16Mbps
- Low Power Consumption for Extended Battery Life
- Built-in Threshold Control for Improved Noise Margin

Applications

- Digital Optical Data-Links
- Dolby AC-3 Digital Audio Interface
- Amplifier

Dimensions

(Unit : mm)



Absolute Maximum Ratings

[Ta = 25 °C]

Description	Symbol	Ratings	Condition
Power Supply Voltage	V _{cc}	-0.5 ~ +7.0	-
Input Voltage	V _{IN}	V _{cc} +0.3V	-
Operating Temperature	T _{opr}	-20 ~ +70 °C	-
Storage Temperature	V _{stg}	- 30 ~ + 80 °C	-
Soldering Temperature *1	T _{sol}	260 °C	-

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

Electro-Optical Characteristics

[V_{cc}= 5V, Ta= 25 °C]

Parameter	Symbol	Characteristics	Condition
Operating Supply Voltage	V _{cc}	4.75 ~ 5.25 V	-
Peak Emission Wavelength	λ _p	TYP 700 nm	-
Data Rate	T	MAX 16 Mbps	-
Optical Output Coupling with Fiber	P _c	MIN -24 dBm	-
Current Consumption	I _{cc}	MAX 6.0 mA	-
Input High Level	V _{IH}	MIN 2.4 V	-
Input Low Level	V _{IL}	MAX 0.4 V	-
Propagation Delay Time (H -> L)	t _{pHL}	MAX 100 ns	-
Propagation Delay Time (L -> H)	t _{pLH}	MAX 100 ns	-
Rise Time	t _r	MAX 15 ns	-
Fall Time	t _f	MAX 15 ns	-
Pulse Width Distortion	△tw	MAX 25 ns	-
Jitter	△tj	MAX 5 ns	-