

KRH-1886BDAN

Description

The **KRH-1886BDAN** consist of a high power special light in TO-18 package.

This device has a high output power, low operating current and provides high optical performance. It emits parallel infrared lights.

Features

- 1mW High power
- 860nm Wavelength Range
- High Reliability
- Low Current and Voltage
- Other Configurations Available on Request

Applications

- Free Space Optics
- Sensor
- Hight limit of resolution encoder

Absolute Maximum Ratings

[Ta = 25°C]

Parameter	Symbol	Ratings	Unit
Continuous Forward Current	I_F	40	mA
Continuous Reverse Voltage	V_R	3	V
Operating Temperature	T_{opr}	-30 ~ +100	°C
Storage Temperature	$T_{stg.}$	-40 ~ +125	°C
Soldering Temperature *1	$T_{sol.}$	260	°C

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

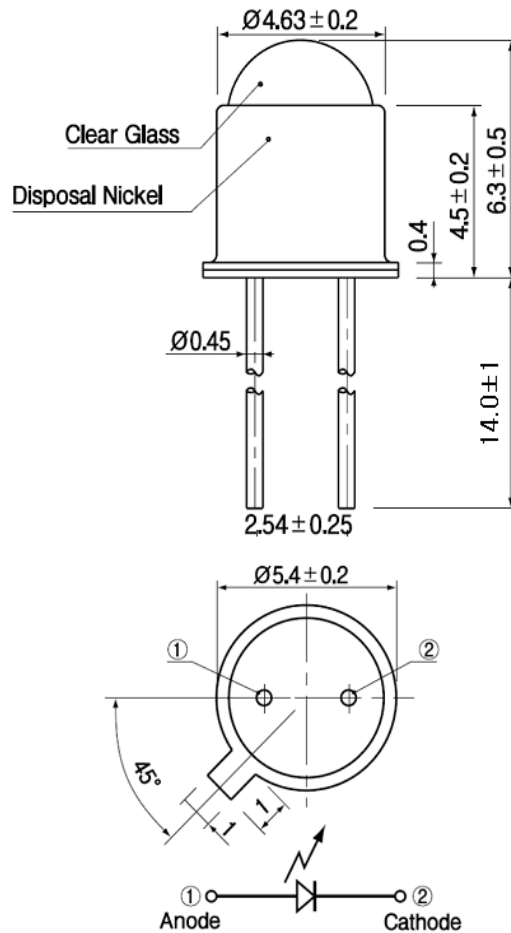
Electro-Optical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Optical Output Power	P_o	1.0	1.3		mW	$I_F=30mA$
Peak Wavelength	λ_p	850	860	880	nm	$I_F=30mA$
Spectral Bandwidth	$\Delta\lambda$		30		nm	$I_F=30mA$
Breakdown Voltage	V_b	-3			V	$I_R=10uA$
Forward Voltage	V_f		1.5	1.7	V	$I_F=30mA$
Beam Divergence	Θ		2		deg	$I_F=30mA$, FWHM
Beam Size	Bs		4.6 4.8		mm	at 1mm from lens at 5mm from lens

* These specifications are subject to change without notice.

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Outline Drawing



UNIT:mm

Ordering information

KRH	PKG type	Wavelength	Output Power	PKG Method	Beam Divergence	Pin Config.
KODENSHI R-type High power	46:TO46	65:650nm	A: 0.3 mW	F:CAN with Flat Windo	A: ±2	A:Cathode Common
	56:TO56	86:860nm	B: 1mW	B:CAN with Ball lens	C: ±5	B:Anode Common
	18:TO18	31:1310nm		T: Tilted Window	D: ±10	C:CASE GND
				A: Aspherical lens	E: ±15	D:CASE Anode
				D: Dome lens		N: Normal