# LED760-40K42 stem type LED with high beam

LED760-40K42 is AlGaAs LED mounted on TO-46 stem with unspherical glass lens, being designed for high beam uses.

On forward bias, it emits a spectral band of radiation, which peaks at 760nm.

#### ♦ Features

- 1) High radiated intensity
- 2) High Reliability

# ◆Specifications

1) Product Name Infrared LED Lamp 2) Type No. LED760-40K42

3) Chip Spec.

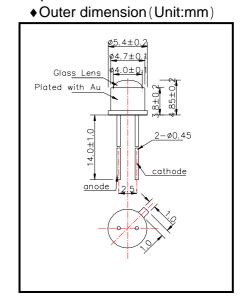
(1) Material **AIGaAs** (2) Peak Wavelength 760nm

4) Package

(1) Type TO-46 stem

(2) Lens Unspherical glass lens

Gold plated (3) Cap



## ♦ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature	
Power Dissipation	Po	200	mW	Ta=25°C	
Forward Current	lF	100	mA	Ta=25°C	
Pulse Forward Current	<b>I</b> FP	500	mA	Ta=25°C	
Reverse Voltage	Vr	5	V	Ta=25°C	
Operating Temperature	Topr	-30 ~ +80	°C		
Storage Temperature	Тѕтс	-30 ~ +100	°C		
Soldering Temperature	Tsol	260	°C		

‡Pulse Forward Current condition: Duty=1% and Pulse Width=10us.

‡Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

## ◆ Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=50mA		1.85	2.00	V
Reverse Current	<b>I</b> R	Vr=5V			10	uA
Total Radiated Power	Po	I==50mA	6	10		mW
Radiant Intensity	ΙE	I==50mA		60.0		mW/sr
Peak Wavelength	λР	I==50mA	740	760	780	nm
Half Width	Δλ	I==50mA		30		nm
Viewing Half Angle	θ 1/2	I==50mA		±6		deg.
Rise Time	tr	IF=50mA		80		ns
Fall Time	tf	lr=50mA		80		ns

‡Total Radiated Power is measured by Photodyne #500

‡Radiant Intensity is measured by Tektronix J-6512.