

$L780\text{-}40K42 \quad \text{stem type LED with high beam}$

L780-40K42 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 780nm.

♦ Features

- 1) High radiated intensity
- 2) High Reliability

◆ Specifications

1) Product Name Infrared LED Lamp

2) Type No. L780-40K42

3) Chip Spec.

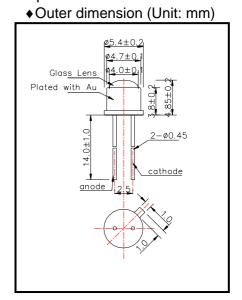
(1) Material **AlGaAs** (2) Peak Wavelength 780nm

4) Package

(1) Type TO-46 stem

(2) Lens Unspherical glass lens

(3) Cap Gold plated



♦ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature	
Power Dissipation	Po	200	mW	Ta=25°C	
Forward Current	lF	100	mΑ	Ta=25°C	
Pulse Forward Current	I FP	500	mΑ	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.

◆ Electro-Optical Characteristics

ltem	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=50mA		1.85	2.00	V
Reverse Current	lr	Vr=5V			10	uA
Total Radiated Power	Po	I==50mA	6	10		mW
Radiant Intensity	lΕ	I==50mA		60.0		mW/sr
Peak Wavelength	λР	I==50mA	760	780	800	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	IF=50mA		80		ns

[‡]Total Radiated Power is measured by Photodyne #500

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

[‡]Radiant Intensity is measured by Tektronix J-6512.