

L780-40K42

Stem Type LED with High Beam

L780-40K42 is an AlGaAs LED mounted on a TO-46 stem with an unspherical glass lens. It is designed for high beam use.

On forward bias, it emits a spectral band of radiation which peaks at 780nm.

<Features>

- High Radiated Intensity

- High Reliability

<Specifications>

1. Product Name: Infrared LED Lamp

2. Type Number: L780-40K42

3. Chip:

Chip material: AlGaAsPeak Wavelength: 780nm

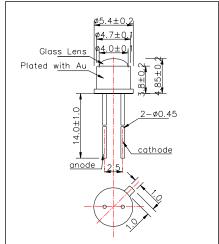
4.Package

- Type: TO-46 Stem

- Lens: Unspherical Glass Lens

- Cap: Gold Plated

Outer Dimension (Unit:mm)



Absolute Maximum Ratings									
Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature					
Power Dissipation	PD	200	mW	Ta=25°C					
Forward Current	IF	100	mA	Ta=25°C					
Pulse Forward Current*	IFP	500	mA	Ta=25°C					
Reverse Voltage	VR	5	V	Ta=25°C					
Operating Temperature	TOPR	-30 ~ +80	°C						
Storage Temperature	TSTG	-30 ~ +100	°C						
Soldering Temperature**	TSOL	260	°C						

^{*} Duty=1% and Pulse Width=10µs.

^{**} Soldering condition must be completed within 3 second at 260 °C.

Electro-Optical Characteristics [Ta=25°C]								
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit		
Forward Voltage	VF	IF=50mA		1.85	2.00	V		
Reverse Current	IR	VR=5V			10	uA		
Total Radiated Power*	PO	IF=50mA	6	10		mW		
Radiant Intensity**	IE	IF=50mA		60		mW/sr		
Peak Wavelength	λР	IF=50mA	760	780	800	nm		
Half Width	Δλ	IF=50mA		30		nm		
Viewing Half Angle	θ1/2	IF=50mA		±6		deg		
Rise Time	tr	IF=50mA		80		ns		
Fall Time	tf	IF=50mA		80		ns		

Measured by Photodyne #500



^{**} Measured by Tektronix J-6512