L680-40K42

Stem Type LED with High Beam

L680-40K42 is an AlGaAs LED mounted on a TO-46 stem with an undpherical glass lens. It is designed for high beam use.

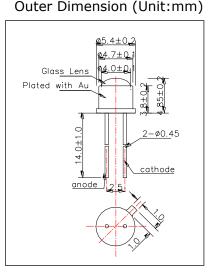
On forward bias, it emits a spectral band of radiation which peaks at 680nm.

<Features>

- High Radiated Intensity
- High Reliability
- <Specifications>
- 1. Product Name: Infrared LED Lamp
- 2. Type Number: L680-40K42
- 3. Chip:
 - Chip material: AlGaAs
 - Peak Wavelength: 680nm

4.Package

- Type: TO-46 Stem
- Lens: Undpherical Glass Lens
- Cap: Gold Plated



Absolute Maximum Ratings								
Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature				
Power Dissipation	PD	110	mW	Ta=25°C				
Forward Current	IF	50	mA	Ta=25°C				
Pulse Forward Current*	IFP	200	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									
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit			
Forward Voltage	VF	IF=20mA		1.90	2.30	V			
Reverse Current	IR	VR=5V			10	uA			
Total Radiated Power*	PO	IF=20mA		2.5		mW			
Radiant Intensity**	IE	IF=20mA		18		mW/sr			
Peak Wavelength	λP	IF=20mA	660	680	700	nm			
Half Width	Δλ	IF=20mA		20		nm			
Viewing Half Angle	θ1/2	IF=20mA		±6		deg			
Rise Time	tr	IF=20mA		80		ns			
Fall Time	tf	IF=20mA		80		ns			

Measured by Photodyne #500

** Measured by Tektronix J-6512

