

## L610-30M32

### Stem Type LED with Glass Ball Lens

L610-30M32 is an GaP LED mounted on TO-18 stem with glass ball lens, being designed for sensing devices. On forward bias it emits a spectral band of radiation, which peaks at 610nm.

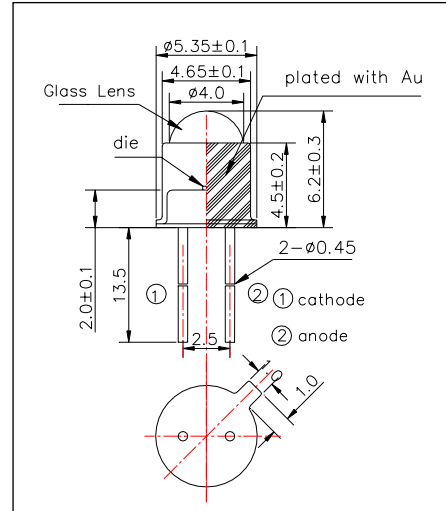
<Features>

- High Power
- High Reliability

<Specifications>

1. Product Name: Infrared LED Lamp
2. Type Number: L610-30M32
3. Chip:
  - Chip material: GaP
  - Peak Wavelength: 610nm
4. Package
  - Stem: TO-18 Stem
  - Lens: Glass Ball Lens

Outer Dimension (Unit:mm)



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	100	mA	Ta=25°C
Reverse Voltage	VR	5	V	Ta=25°C
Operating Temperature	TOPR	-30 ~ +85	°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 seconds at 260°C

Electro-Optical Characteristics[Ta=25°C]						
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF=20mA		2.0	2.3	V
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power*	PO	IF=20mA	0.7	1.2		mW
Radiant Intensity**	IE	IF=20mA		6		mW/sr
Brightness	IV	IF=20mA		3000		mcd
Peak Wavelength	λP	IF=20mA	600	610	620	nm
Half Width	Δλ	IF=20mA		15		nm
Viewing Half Angle	θ1/2	IF=20mA		±15		deg

\* Measured by Photodyne #500

\*\* Measured by Tektronix J-6512

