

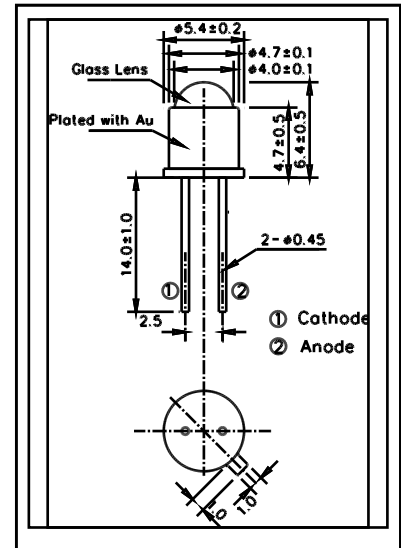
L1600–35K32 InGaAsP IR-LED

L1600–35K32 is an InGaAsP LED mounted on a TO–46 stem with a spherical glass lens. On forward bias, it emits a spectral band of radiation which peaks at 1600nm.

Outer dimension (Unit :mm)

- ◆ Features
- 1)High Power
 - 2)High Reliability
 - 3)Wide Emitted Angle

- ◆ Specifications
- 1)Product Name InGaAsP Infrared LED Lamp
 - 2)Type No. L1600–35K32
 - 3)Chip Spec.
 - (1)Material InGaAs/InP
 - (2)Peak Wavelength 1600nm
 - 4)Package
 - (1)Type TO–18 stem
 - (2)Can Lens Spherical glass lens
 - (3)Can Gold Plated



◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	120	mW	T _a =25°C
Foward Current	I _F	100	mA	T _a =25°C
Pulse Foward Current	I _{FP}	1	A	T _a =25°C
Reverse Voltage	V _R	3	V	T _a =25°C
Operating Temperature	T _{OPR}	–20 ~ +90	°C	
Storage Temperature	T _{STG}	–30 ~ +100	°C	
Soldering Temperature	T _{SOL}	260	°C	

‡Soldering condition : Soldering condition must be completed within 3 seconds at 260°C and is allowed in the area within 3mm from the bottom of the lamp.

‡Pulse Foward Current condition : Duty=1% and Pulse Width=10μ s.

◆ Electro–Optical Charactaristics [T_a=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =20mA		0.8	1.2	V
Reverse Current	I _R	V _R =3V			10	u A
Total Radiated Power	P _O	I _F =20mA	0.1	0.3		mW
Radiant Intensity	I _E	I _F =20mA		0.2		mW/sr
Peak Wavelength	λ _P	I _F =20mA	1550	1600	1650	nm
Half Width	Δλ	I _F =20mA		80		nm
Viewing Half Angle	Δθ	I _F =20mA		± 15		deg.
Rise Time	t _r	I _F =20mA		10		ns
Fall Time	t _f	I _F =20mA		10		ns