

L590-35D32-I

Stem Type LED with Glass Ball Lens

L590-35D32-I is an GaAlP LED mounted on TO-46 3pins stem with glass ball lens, and electrodes are isolated from case. On forward bias it emits a spectral band of radiation, which peaks at 590nm.

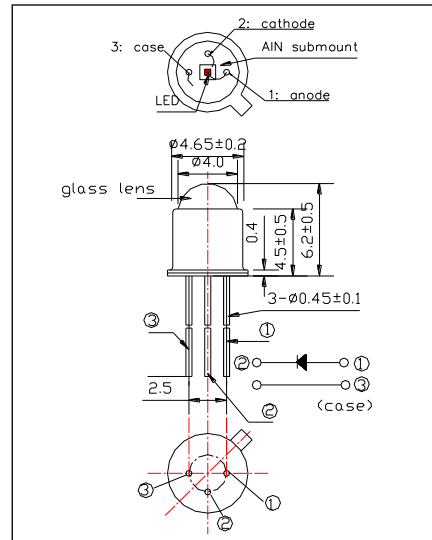
<Features>

- High Power
- High Reliability

<Specifications>

1. Product Name: LED Lamp
2. Type Number: L590-35D32-I
3. Chip:
 - Chip material: InGaAlP
 - Dimension: 350um x 350um
 - Peak Wavelength: 590nm
4. Package
 - Stem: TO-46 3pins Stem
 - Lens: Glass Ball Lens
 - Cap: Gold Plated

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	130	mW
Forward Current	IF	50	mA
Pulse Forward Current*	IFP	100	mA
Reverse Voltage	VR	5	V
Thermal Resistance	Rthja	295	K/W
Junction Temperature	Tj	135	°C
Operating Temperature	TOPR	-40 ~ +85	°C
Storage Temperature	TSTG	-40 ~ +100	°C
Soldering Temperature**	TSOL	265	°C

* Duty=1% and Pulse Width=10μs

** Soldering condition must be completed within 3 seconds at 265°C

Electro-Optical Characteristics[Ta=25°C]						
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF=20mA		2.1	2.5	V
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power*	PO	IF=20mA	2.0	3.0		mW
Radiant Intensity**	IE	IF=20mA		9		mW/sr
Peak Wavelength	λP	IF=20mA	585	590	600	nm
Dominant Wavelength	λD	IF=20mA		589		nm
Half Width	Δλ	IF=20mA		14		nm
Viewing Half Angle	θ1/2	IF=20mA		±4		deg

* Measured by S3584-08

** Measured by Tektronix J-6512

