L1550-35M32L

Stem Type LED with High Radiant Intensity

L1550-35M32L is an InGaAsP LED mounted on a TO-18 stem with a spherical glass lens being designed for high radiant intensity.
On forward bias, it emits a spectral band of radiation which peaks at 1550nm.

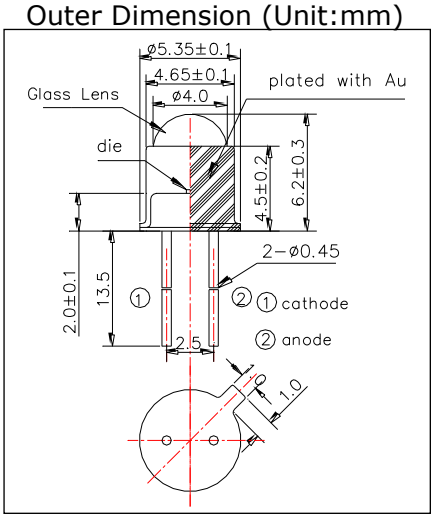
<Features>

- High Radiated Intensity
- High Reliability

<Specifications>

1. Product Name: NIR LED Lamp
2. Type Number: L1550-35M32L
3. Chip:
   - Chip material: InGaAs/InP
   - Peak Wavelength: 1550nm typ.
4. Package
   - Type: TO-18 Stem
   - Lens: Spherical Glass Lens
   - Cap: Gold Plated

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25℃]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	130	mW
Forward Current	IF	100	mA
Pulse Forward Current*	IFP	1000	A
Reverse Voltage	VR	3	V
Junction Temperature	Tj	100	℃
Thermal Resistance**	Rthjp	330	K/W
Operating Temperature	TOPR	-30 ~ +80	℃
Storage Temperature	TSTG	-40 ~ +100	℃
Soldering Temperature***	TSOL	265	℃

* Duty=1% and Pulse Width=10μs
** Junction - ambient, leads 7mm, soldered on PCB
*** Soldering condition must be completed within 3 second at 265℃.

Electro-Optical Characteristics [Ta=25℃]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=50mA		0.95	1.35	V
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power*	PO	IF=50mA	1.0	1.4		mW
Radiant Intensity**	IE	IF=50mA		3.0		mW/sr
Peak Wavelength	λP	IF=50mA	1500	1550	1600	nm
Half Width	Δλ	IF=50mA		115		nm
Centroid Wavelength	λC	IF=50mA		1525		nm
Viewing Half Angle	θ1/2	IF=50mA		±9		deg
Rise Time	tr	IF=50mA		10		ns
Fall Time	tf	IF=50mA		10		ns

* Measured by HPK G8370-85
** Measured by Ando Optical Multi Meter AQ2140&AQ2742

RoHS Compliant

Marubeni America Corporation | 3945 Freedom Circle, Suite 1000, Santa Clara, CA95054
Tel: 408-330-0650 | Fax: 408-330-0655 | Email: sales@tech-led.com