LED LAMP

CL-55A3HD1A-001

## FEATURES

Low power consumption.

High Efficiency

Round type

Outline dimensions(5mm*5mm*7mm)

With Flange

Solder leads without stand-off

Compliant with RoHS

## ATTENTION

OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE DEVICES

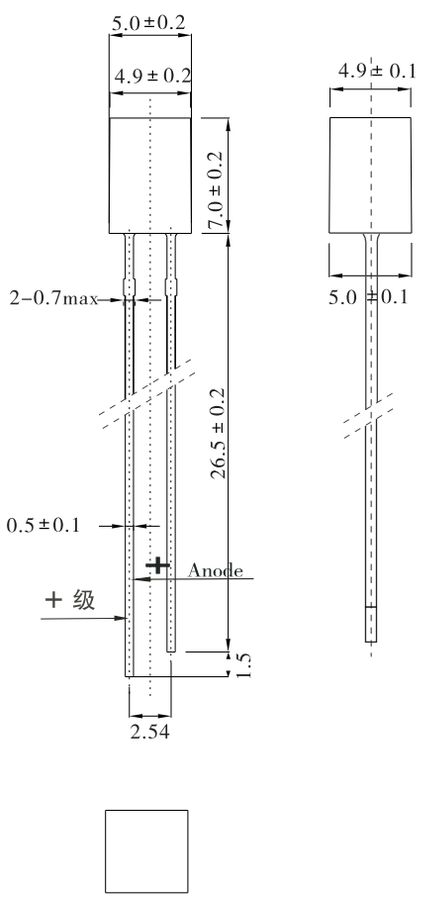
## DESCRIPTIONS

Chip Material: AlGaInP/GaAs

Emitting Color: Red

Lens Color: Red Diffused

## OUTLINE DRAWING




Tolerance is ± 0.25mm

Unless Otherwise Specified.

## ELECTRICAL OPTICAL CHARACTERISTICS ( Ta=25℃ )

| Parameter | Symbol | Min | Typ | Max | Unit | Test Condition |
|---|---|---|---|---|---|---|
| Forward Voltage | $V_F$ | - | 2.0 | 2.3 | V | IF=20mA |
| Luminous Intensity | $I_V$ | 9.8 | 25 | - | mcd | IF=20mA |
| Peak Wavelength | $\lambda_P$ | | 645 | | nm | IF=20mA |
| Spectral Line half-width | $\Delta\lambda$ | | 20 | | nm | IF=20mA |
| Reverse Leakage Current | $I_R$ | | | 50 | μA | VR=5V |
| Viewing Angle | $2\theta_{1/2}$ | | 140 | | Deg | IF=20mA |

## ABSOLUTE MAXIMUM PARAMETERS ( Ta=25℃ )

| Parameter | Symbol | Condition | Rating | Unit |
|---|---|---|---|---|
| Power Dissipation | $P_D$ | --- | 80 | mW |
| Reverse Voltage | $V_R$ | IR=50μA | 5 | V |
| Forward Average Current | $I_F$ | --- | 30 | mA |
| Temperature cofficient | I/C | --- | 0.4 | mA/℃ |
| Pulse Current | IFP | Duty=1/10,1kHz | 100 | mA |
| Operating Temperature Range | Topr | --- | -25 ~ +85 | ℃ |
| Storage Temperature Range | Tstg | --- | -30 ~ +100 | ℃ |
| Soldering Condition | Tsd | --- | 265℃/5sec | ℃ |

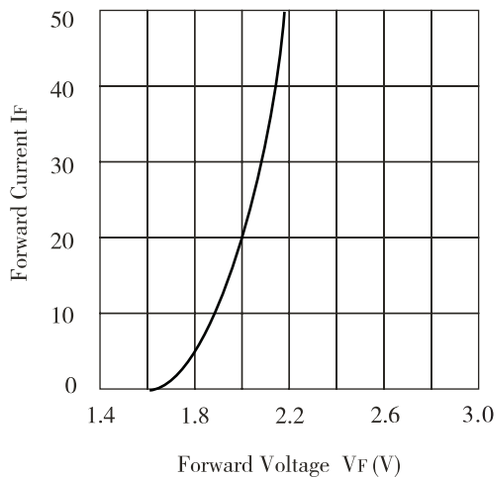
NOTE:

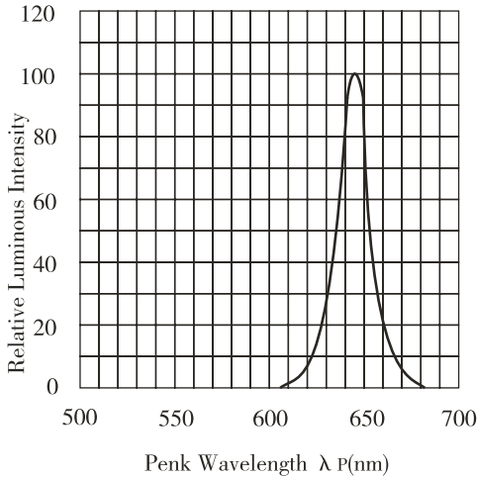
Luminous Intensity Measurement allowance is ± 10%.

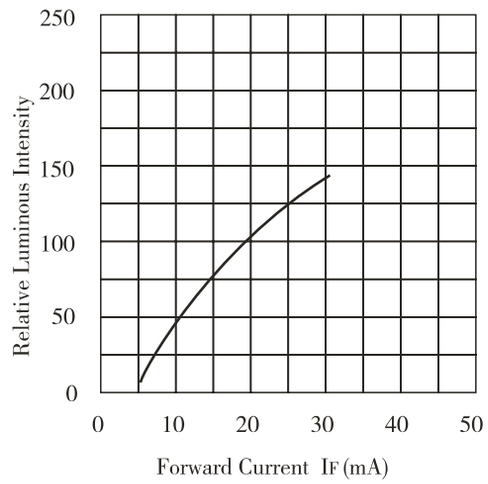
$2\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

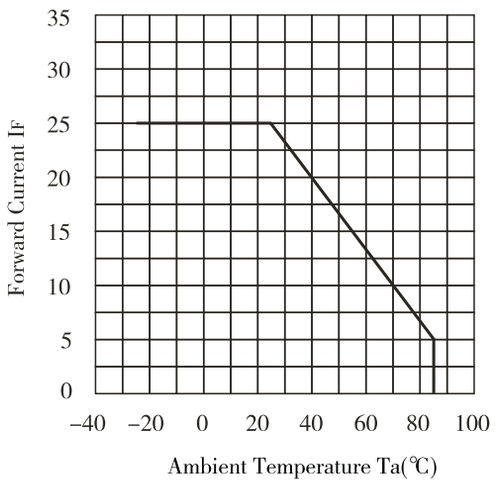
The dominant wavelength is derivd from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

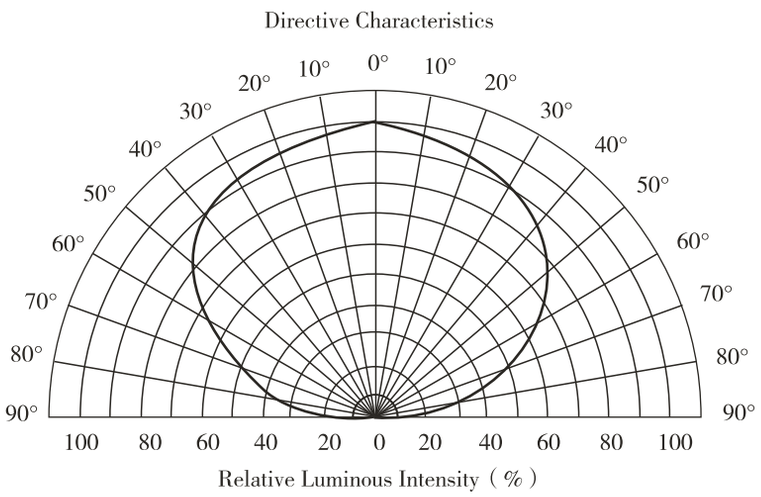
## TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES ( Ta=25℃ )



## Package

| Item | Inner packaging bag | Inner packaging box |
|---|---|---|
| Material | Antistatic bag | Single corrugated box |
| Quantity | 1000PCS | Single corrugated box × 6 =6000PCS |
| Marking | Label<br>Marking: Type、Quantity | Centificate of conformity<br>Marking: Product name 、Type、Quantitye、Date of manufacture |
| Size | 16×23(cm) | 30×19 ×11.5(cm) |