



Data Sheet

Customer:

Part No:

Sample No:

Description:

Item No:

CL-55A3HD1A-001

5x5 Lamp Red Color

Customer			
Check	Inspection	Approval	Date

FEATURES

Low power consumption.

High Efficiency

Round type

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

With Flange

Solder leads without stand-off

Compliant with RoHS

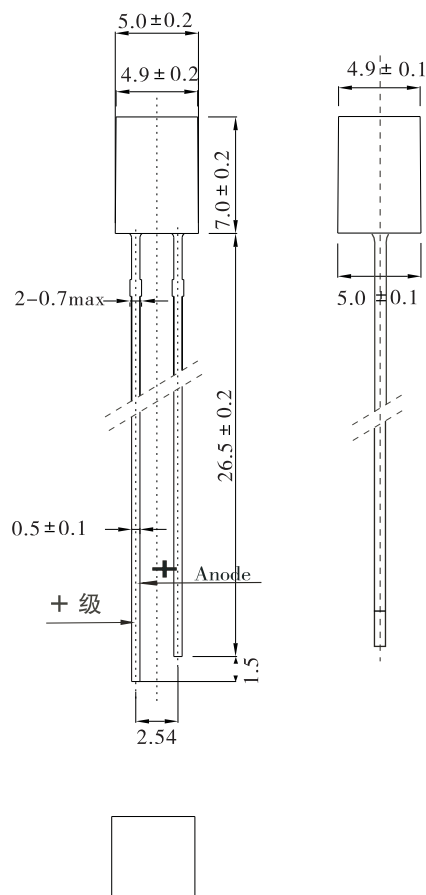
DESCRIPTIONS

Chip Material: AlGaInP/GaAs

Emitting Color: Red

Lens Color: Red Diffused

OUTLINE DRAWING



ATTENTION



OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE DEVICES

Tolerance is $\pm 0.25\text{mm}$
Unless Otherwise Specified.

ELECTRICAL OPTICAL CHARACTERISTICS (Ta=25°C)

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	λ_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°C)

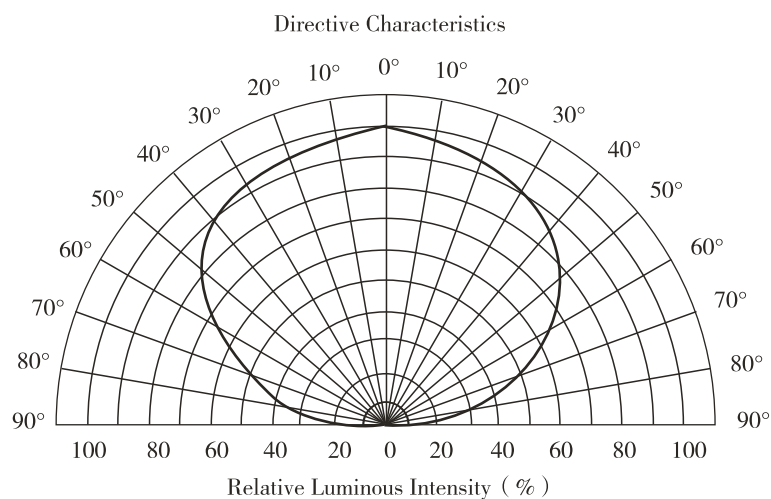
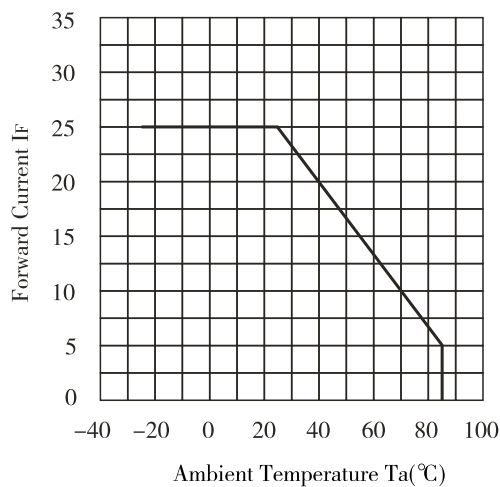
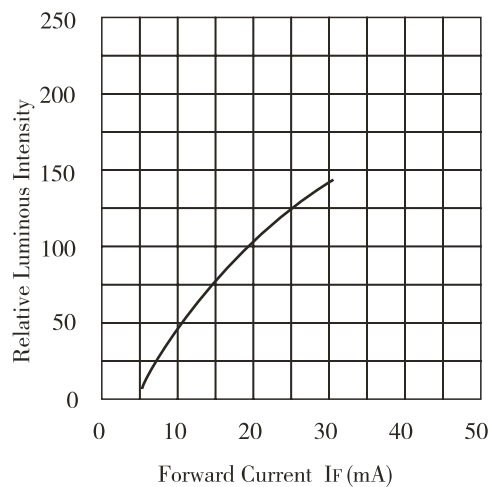
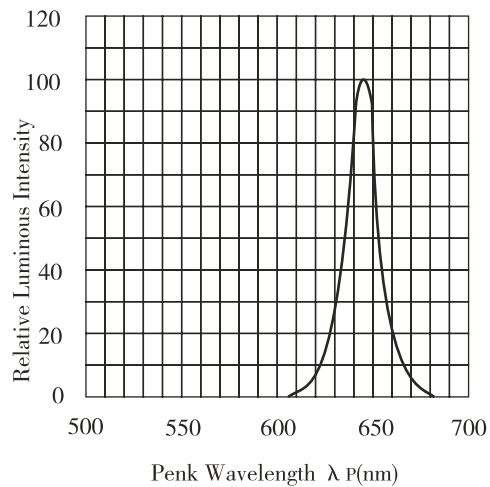
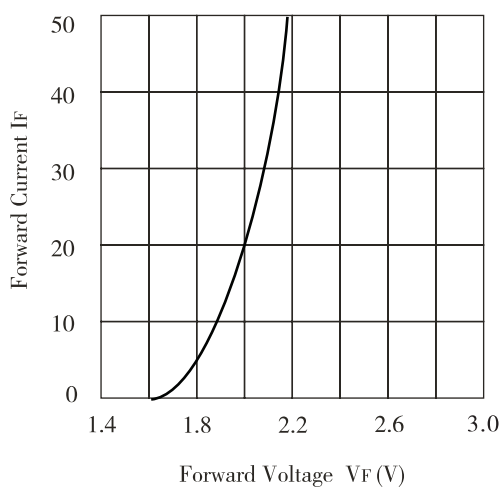
Parameter	Symbol	Condition	Rating	Unit
Power Dissipation	P_D	---	80	mW
Reverse Voltage	V_R	IR=50 μA	5	V
Forward Average Current	I_F	---	30	mA
Temperature coefficient	I/C	---	0.4	mA/ °C
Pulse Current	IFP	Duty=1/10,1kHz	100	mA
Operating Temperature Range	Topr	---	-25 ~ +85	°C
Storage Temperature Range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

NOTE:

Luminous Intensity Measurement allowance is $\pm 10\%$.

$2\theta_{1/2}$ 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 ($T_a=25^{\circ}\text{C}$)


Package

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