Kingbright

Part Number: DLC2/6ED   Orange

Description

The Orange source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.
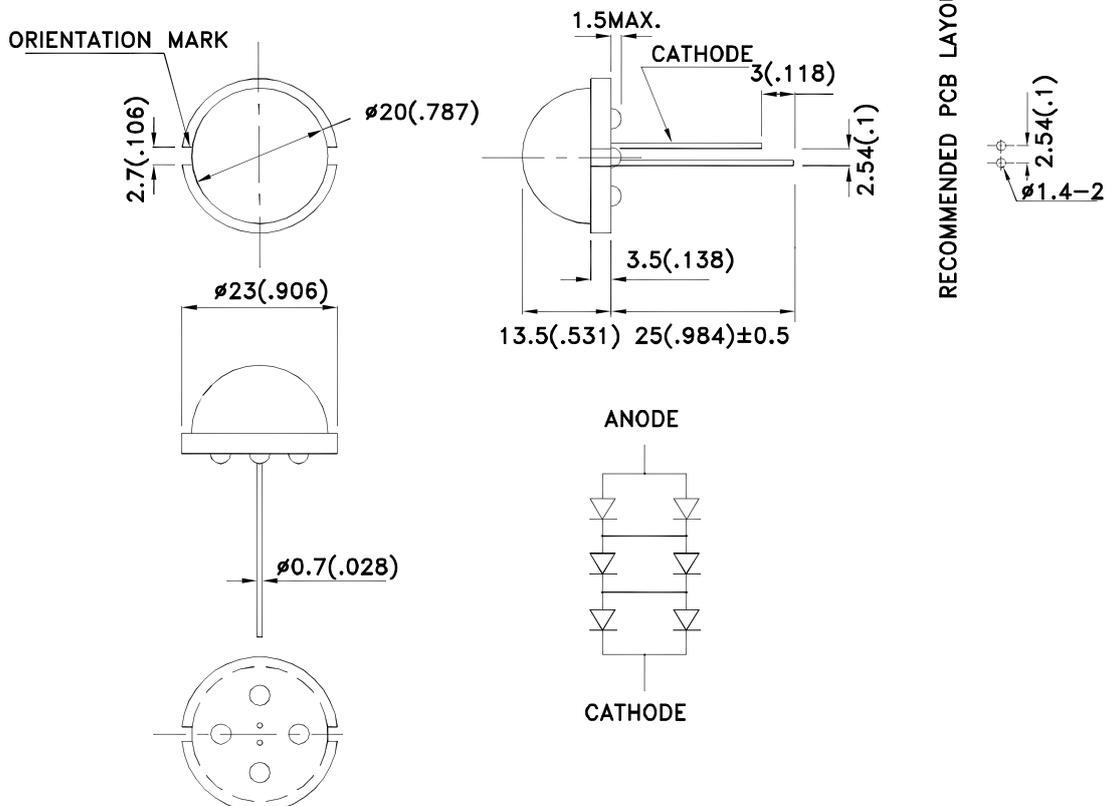
Features

- 2 pins.
- High luminous intensity.
- Low power consumption.
- Wide viewing angle.
- Categorized for luminous intensity.
- Excellent on/off contrast.
- Easy mounting on P.C. board or sockets.
- Solid state reliability.
- RoHS compliant.

Package Dimensions

ORIENTATION MARK
2.7(.106)
ø20(.787)
ø23(.906)
ø0.7(.028)

1.5MAX.
CATHODE
3(.118)
2.54(.1)
3.5(.138)
13.5(.531) 25(.984)±0.5

RECOMMENDED PCB LAYOUT
2.54(.1)
ø1.4-2

ANODE

CATHODE

Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

SPEC NO: DSAD6167   REV NO: V.5   DATE: SEP/29/2009   PAGE: 1 OF 4
APPROVED: WYNEC   CHECKED: Allen Liu   DRAWN: M.L.Xu   ERP: 1338000068

Kingbright

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA Min.	Iv (mcd) [2] @ 20mA Typ.	Viewing Angle [1] 2θ1/2
DLC2/6ED	Orange (GaAsP/GaP)	ORANGE DIFFUSED	8	54.04	120°

Notes:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Orange	627		nm	I_F=20mA
λD [1]	Dominant Wavelength	Orange	625		nm	I_F=20mA
$\Delta\lambda$1/2	Spectral Line Half-width	Orange	45		nm	I_F=20mA
C	Capacitance	Orange	15		pF	V_F=0V;f=1MHz
V_F [2]	Forward Voltage	Orange	5.7	7.5	V	I_F=20mA
I_R	Reverse Current	Orange		20	uA	V_R = 15V

Notes:
1.Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

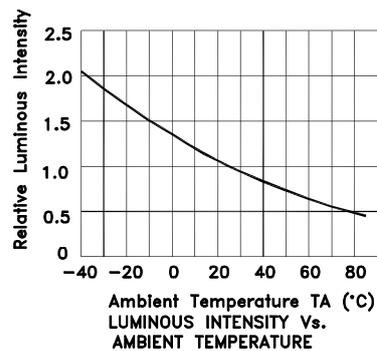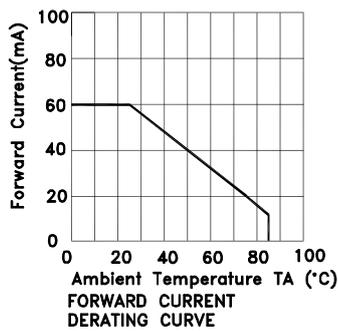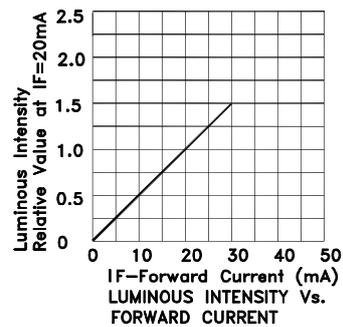| Parameter	Orange	Units
Power dissipation	450	mW
DC Forward Current	60	mA
Peak Forward Current [1]	320	mA
Reverse Voltage	15	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3-5 Seconds	

Notes:
1. The chips are three in series and two parallel.
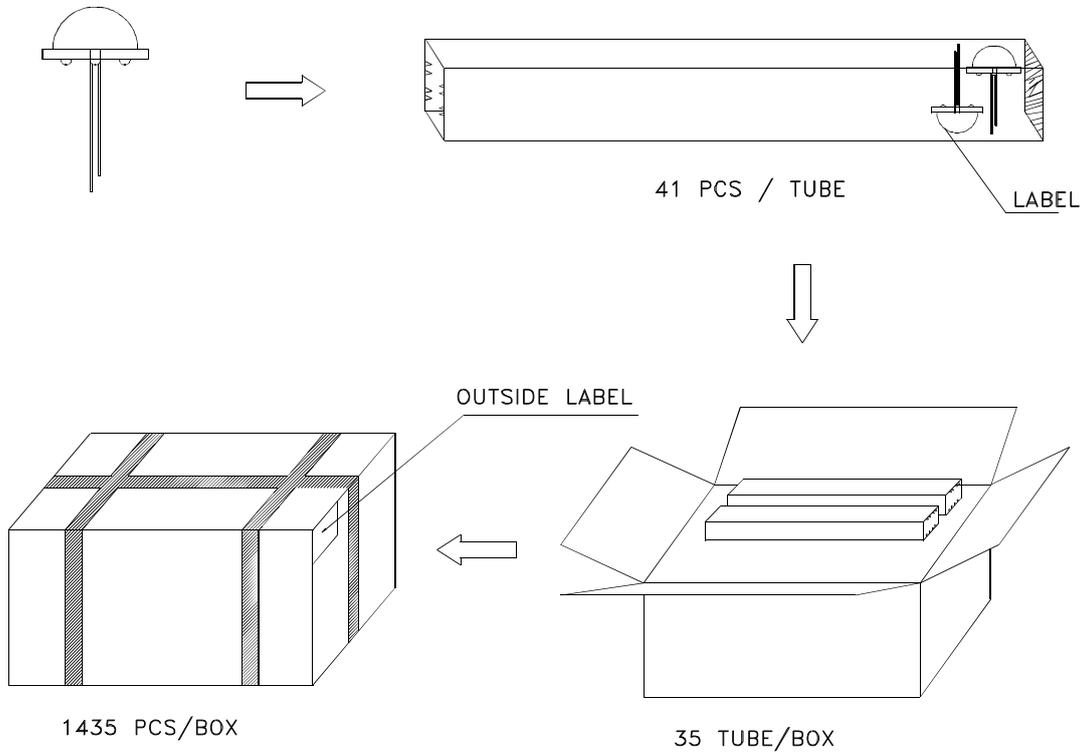2. 2mm below package base.

Kingbright

Orange

RELATIVE INTENSITY Vs. WAVELENGTH

Orange   **DLC2/6ED**

FORWARD CURRENT Vs
FORWARD VOLTAGE

LUMINOUS INTENSITY Vs.
FORWARD CURRENT

FORWARD CURRENT
DERATING CURVE

LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

SPATIAL DISTRIBUTION

Kingbright
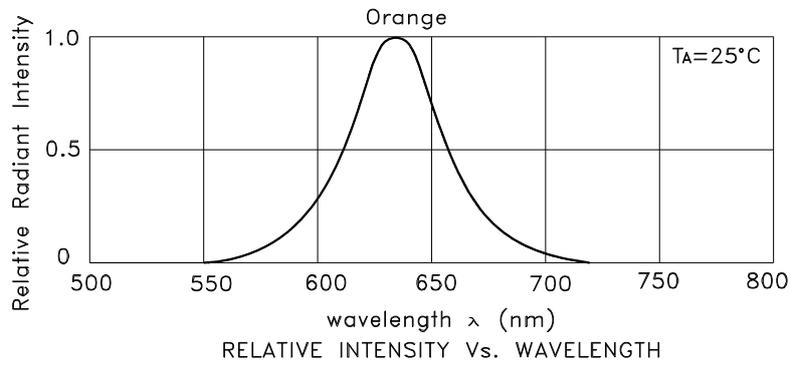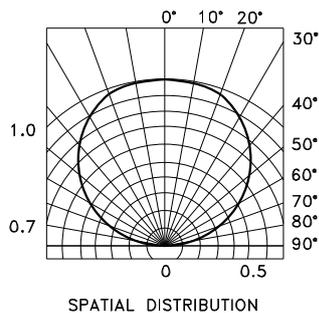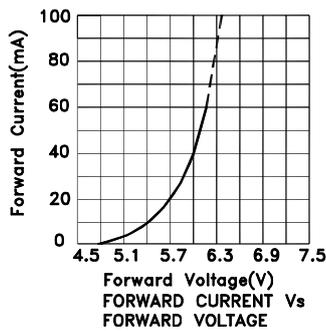
PACKING & LABEL SPECIFICATIONS   **DLC2/6ED**

41 PCS / TUBE

LABEL

OUTSIDE LABEL

1435 PCS/BOX

35 TUBE/BOX

Inside LABEL Paste On The IC-TUBE

Kingbright
TYPE: DLX2/6XXX
QTY: 41 PCS   CODE: xx
PASSED
xx xx xx
FQCX
Date
Number OF FQC
xxxxxxxxx-xxxx
RoHs Compliant
LOT NO.
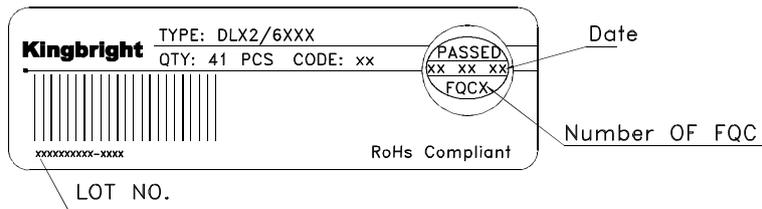
Outside LABEL Paste On The Box

XXXXXX

Bin Code
DLX2/6XXX
1435   PCS   xx
Number OF QA
QAx
xx xx xx
Date
PASSED
RoHS Compliant