Kingbright

20mm BIG LAMP

Part Number: DLC2/6YD Yellow

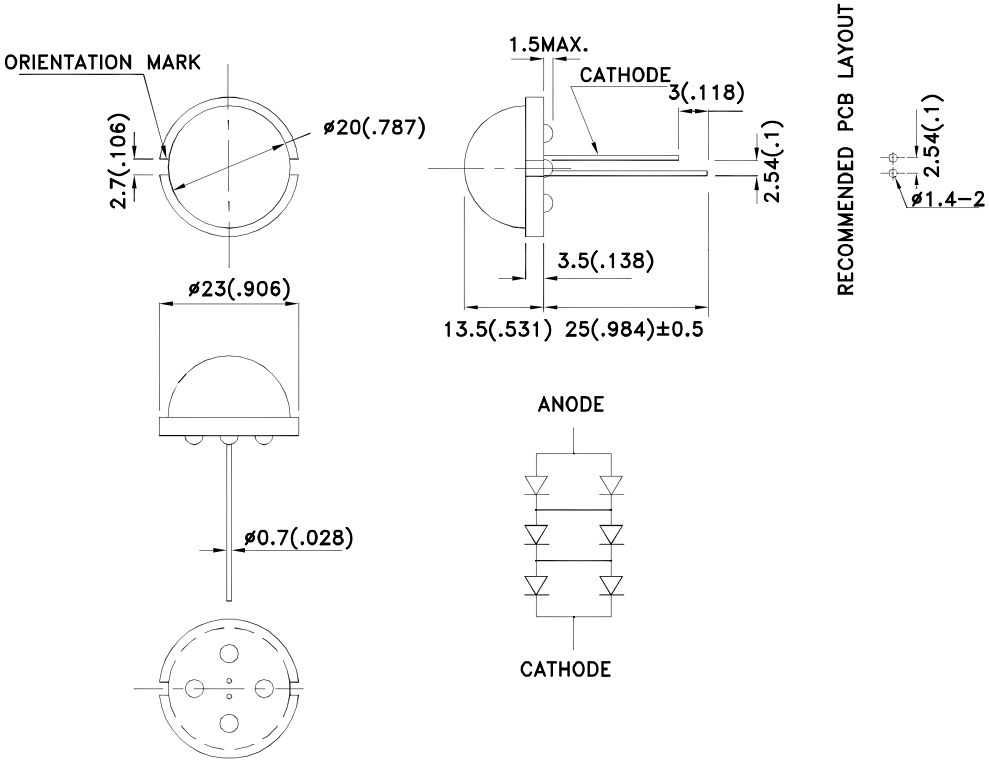
Features

- 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.

Description

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

Package Dimensions



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.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
DLC2/6YD	Yellow (GaAsP/GaP)	YELLOW DIFFUSED	7	37.18	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

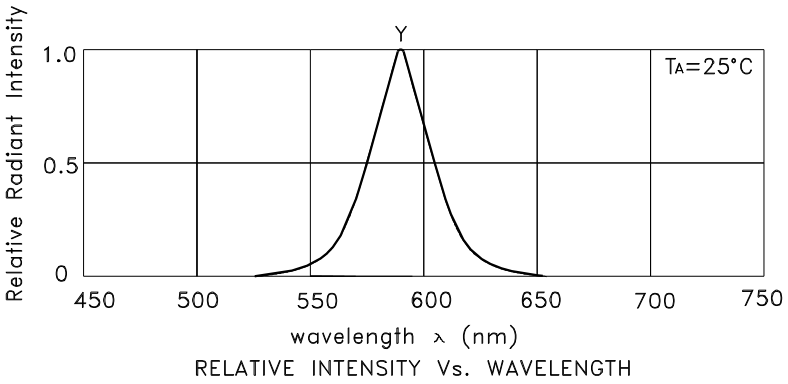
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Yellow	590		nm	I_F=20mA
λD [1]	Dominant Wavelength	Yellow	588		nm	I_F=20mA
Δλ1/2	Spectral Line Half-width	Yellow	35		nm	I_F=20mA
C	Capacitance	Yellow	20		pF	V_F=0V;f=1MHz
V_F [2]	Forward Voltage	Yellow	5.85	7.5	V	I_F=20mA
I_R	Reverse Current	Yellow		20	uA	V_R = 15V

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

Absolute Maximum Ratings at TA=25°C

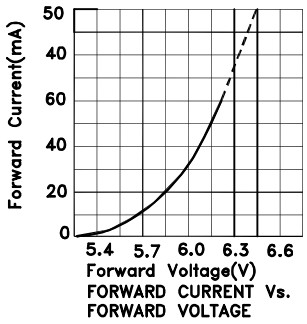
Parameter	Yellow	Units
Power dissipation	450	mW
DC Forward Current	60	mA
Peak Forward Current [1]	280	mA
Reverse Voltage	15	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3-5 Seconds	

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

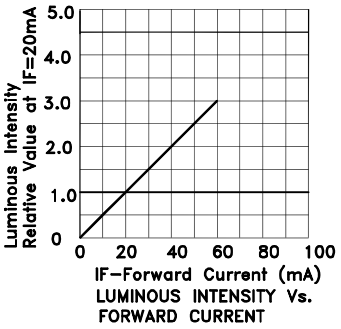


RELATIVE INTENSITY Vs. WAVELENGTH

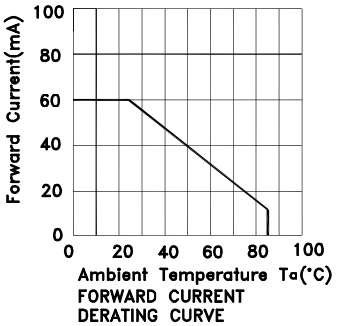
Yellow **DLC2/6YD**



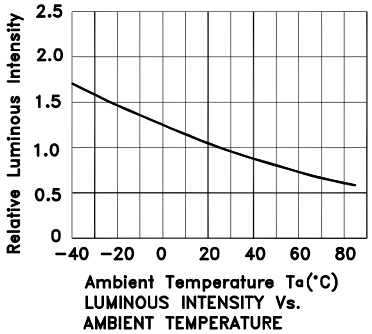
FORWARD CURRENT Vs. FORWARD VOLTAGE



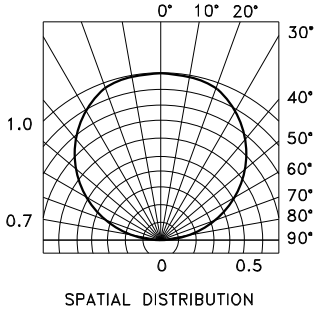
LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE

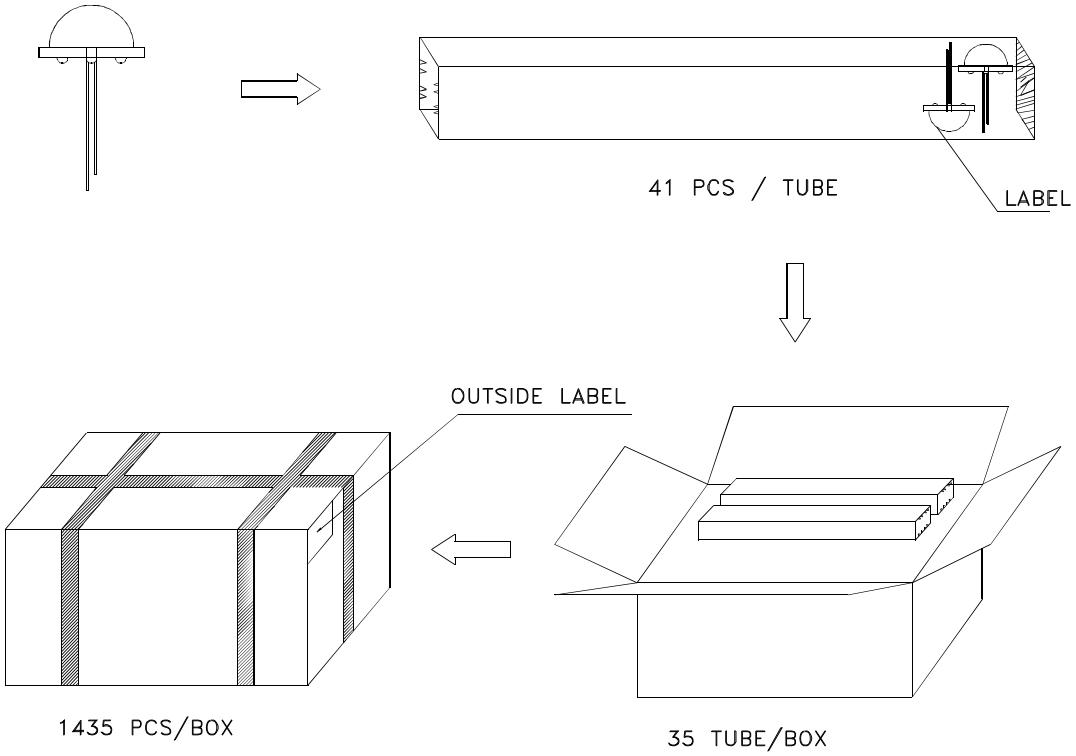


LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

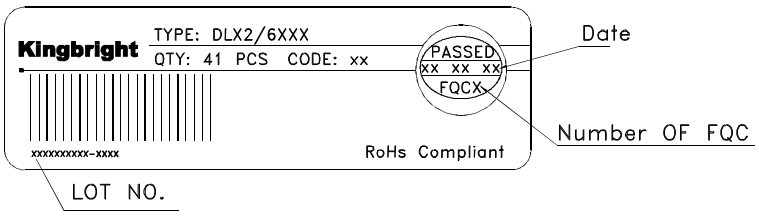


SPATIAL DISTRIBUTION

PACKING & LABEL SPECIFICATIONS **DLC2/6YD**



Inside LABEL Paste On The IC-TUBE



Outside LABEL Paste On The Box