Kingbright

20mm BIG LAMP

DLC2/6ID HIGH EFFICIENCY RED

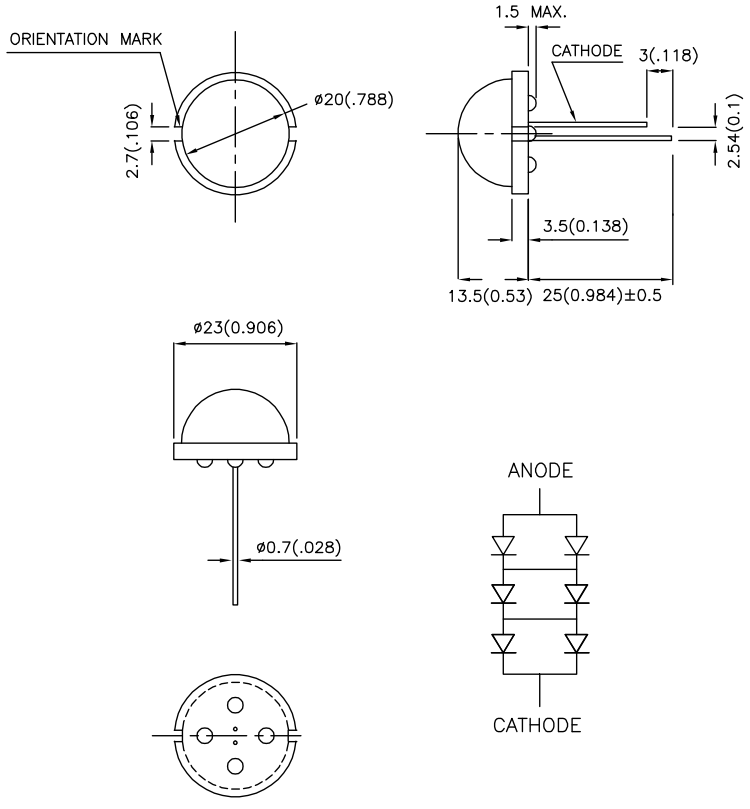
Features

- ●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.

Description

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

Package Dimensions & Internal Circuit Diagram



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 lead emerge package.
4. Specifications are subject to change without notice.

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Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
DLC2/6ID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	18000	61560	120°

Note:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

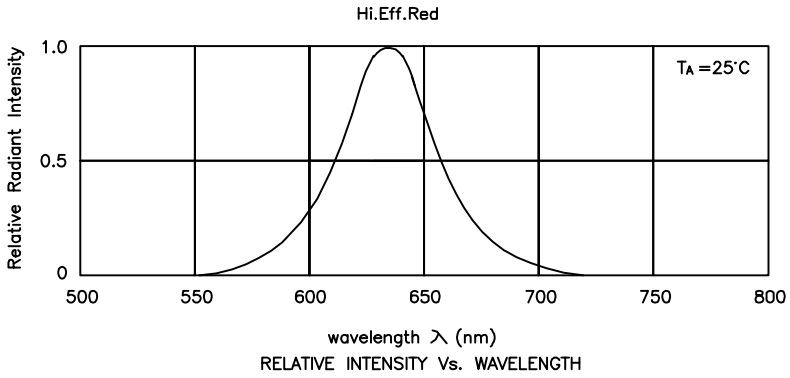
Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627		nm	I_F=20mA
λD	Dominate Wavelength	High Efficiency Red	625		nm	I_F=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	I_F=20mA
C	Capacitance	High Efficiency Red	15		pF	V_F=0V;f=1MHz
V_F	Forward Voltage	High Efficiency Red	5.7	7.5	V	I_F=20mA
I_R	Reverse Current	High Efficiency Red		20	uA	V_R = 15V

Absolute Maximum Ratings at T_A=25°C

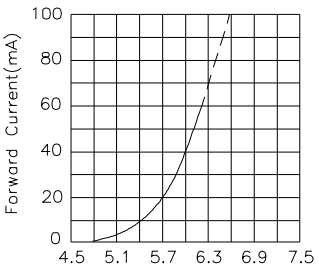
Parameter	High Efficiency Red	Units
Power dissipation	450	mW
DC Forward Current[1]	60	mA
Reverse Voltage	15	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3 Seconds	

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

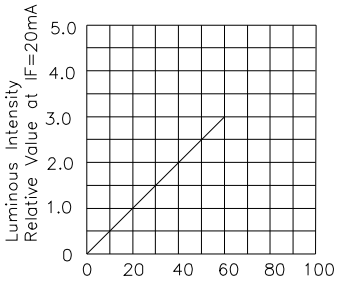


RELATIVE INTENSITY Vs. WAVELENGTH

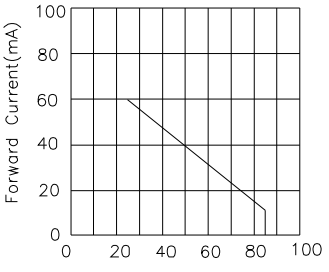
High Efficiency Red **DLC2/6ID**



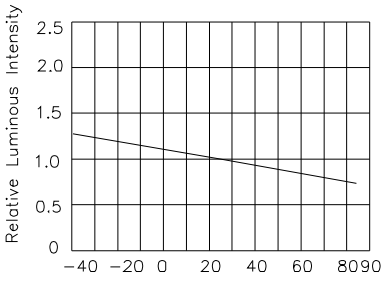
FORWARD CURRENT Vs.
FORWARD VOLTAGE



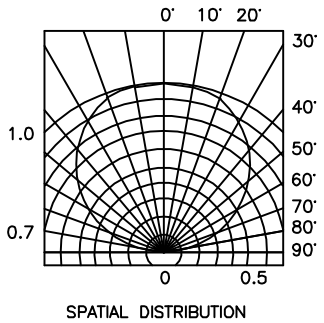
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE



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