

20mm BIG LAMPS

DLA2/6 SERIES

DLC2/6 SERIES

Features

- •2 PINS.
- •HIGH LUMINOUS INTENSITY.
- •LOWPOWER CONSUMPTION.
- •WIDE VIEWING ANGLE.
- •CATEGORIZED FOR LUMINOUS INTENSITY.
- •EXCELLENT ON/OFF CONTRAST.
- EASY MOUNTING ON P.C. BOARD OR SOCKETS.
- •SOLID STATE RELIABILITY.

Description

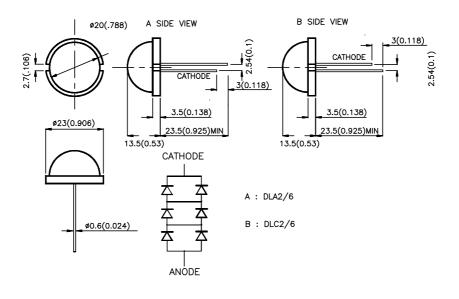
The Green and Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting

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

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

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

Package Dimensions



- Nutes.

 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 subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 10 mA		Viewing Angle
	2.00	20110 1 7 700	Min.	Max.	2q1/2
DLA2/6ID DLC2/6ID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	4	13	120°
DLA2/6GD DLC2/6GD	GREEN (GaP)	GREEN DIFFUSED	8	40	120°
DLA2/6YD DLC2/6YD	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	2.5	8.3	120°
DLA2/6SRD DLC2/6SRD	SUPER BRIGHT RED (GaAlAs)	RED DIFFUSED	*40	*75	120°
DLA2/6SGD DLC2/6SGD	SUPER BRIGHT GREEN (GaP)	GREEN DIFFUSED	*50	*80	120°

Electrical / Optical Characteristics at T_A =25°C

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Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red Green Yellow Super Bright Red Super Bright Green	625 565 590 660 565		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	High Efficiency Red Green Yellow Super Bright Red Super Bright Green	45 30 35 20 30		nm	IF=20mA
С	Capacitance	High Efficiency Red Green Yellow Super Bright Red Super Bright Green	12 45 10 95 45		pF	VF=0V;f=1MHz
VF	Forward Voltage	High Efficiency Red Green Yellow Super Bright Red Super Bright Green	2.0 2.2 2.1 1.85 2.2	2.5 2.5 2.5 2.5 2.5	V	IF=20mA
I _R	Reverse Current	All	10		uA	VR = 5V

Absolute Maximum Ratings at T_A =25°C

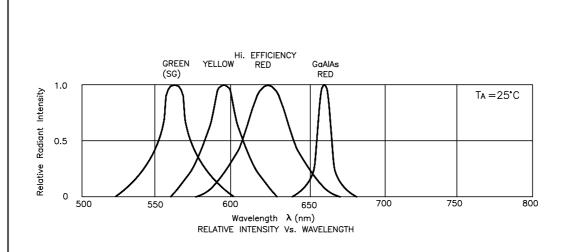
Parameter	High Efficiency Red	Green	Yellow	Super Bright Red	Super Bright Green	Units	
Power dissipation	105	105	105	100	105	mW	
DC Forward Current	30	25	30	30	25	mA	
Peak Forward Current [1]	150	150	150	150	150	mA	
Reverse Voltage	5	5	5	5	5	V	
Operating/Storage Temperature	-40 °C T ₀ +85 °C						
Lead Soldering Temperature [2]	260 °C For 5 Seconds						

Notes:

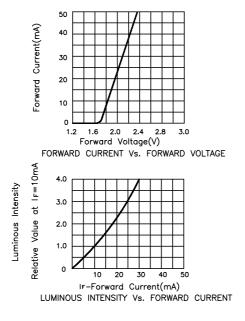
1. 91/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

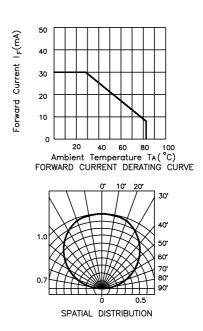
2. *Luminous intensity with asterisk is measured at 20 mA.

Notes: 1.1/10 Duty Cycle, 0.1ms Pulse Width. 2.4mmbelowpackage base.



High Efficiency Red DLA2/6ID, DLC2/6ID





Green DLA2/6GD, DLC2/6GD 50 Forward Current I_F(mA) Forward Current(mA) 40 30 20 20 10 10 1.6 2.0 2.4 2.6 Forward Voltage(V) 20 40 60 80 100 Ambient Temperature Ta(°C) FORWARD CURRENT DERATING CURVE FORWARD CURRENT Vs. FORWARD VOLTAGE Relative Value at 1F=10mA 4.0 Luminous Intensity 3.0 70° IF-Forward Current(mA) SPATIAL DISTRIBUTION LUMINOUS INTENSITY Vs. FORWARD CURRENT Yellow DLA2/6YD, DLC2/6YD 50 Forward Current I_F(mA) Forward Current(mA) 40 30 20 10 1.6 2.0 20 40 60 80 100 Ambient Temperature Ta(°C) FORWARD CURRENT DERATING CURVE 20 Forward Voltage(V) FORWARD CURRENT Vs. FORWARD VOLTAGE Relative Value at IF=10mA 4.0 Luminous Intensity 2.0 60 1.0 70° 20 30 40

SPATIAL DISTRIBUTION

IF-Forward Current(mA)
LUMINOUS INTENSITY Vs. FORWARD CURRENT

