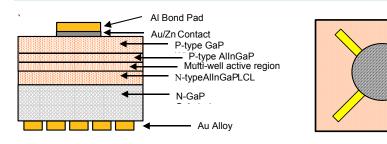
# Lumileds P4 Series LED Chips

## Technical Data DS42

The P4 series chips are a transparent substrate AllnGaP chip delivering high-flux performance.

## **Outline Drawings**



# **Optoelectric Parameters**

			Dominant Wavelength (λD, NM) Test Current = 1 OMA			INTENSITY (IV, mcd) Test Current = 40mA		
Part Number	Color	Max Drive Current	Min.	Typ.	Max.	Min.	Typ.	MAX.
HWFR-B3   7 HWFR-B4   7 HWFR-B5   7	Amber Red-Orange Red	I 50мА I 50мА I 50мА	585 612 618	590 618 626	595 625 635	0 200     0	60 - 300 -  60 -	-
Part Number	Color	Test Current	Forward Voltage (Vf, V) Typ. Max.		Reverse Voltage (Vbr, V) @ 100uA Min.			
HWFR-B3   7 HWFR-B4   7 HWFR-B5   7	Amber Red-Orange Red	40мА 40мА 40мА	2.3 2.3 2.3	3	3.0 3.0 3.0		-6.0 -6.0 -6.0	

## **Mechanical Dimensions**

MECHANICAL DIMENSIONS

CHIP SIZE JUNCTION AREA CHIP THICKNESS TOP METAL BACK METAL | 2 X | 2 MILS | 2 X | 2 MILS | 0.5 +/- | .5 MILS AL/AUZN AU/GE

CHIPS ARE SAMPLE TESTED FOR IV, COLOR, I OO% TESTED FOR VF AND VR, DICED, VISUALED, AND MOUNTED ON SIX INCH PHOTON RINGS.

CHIP PRESENTATION

#### **Benefits**

- Fewer LEDs Required
- Lowers Lighting System Cost

### Features

- High Luminous Flux
- Higher Forward Current Operation
  Capability

## **Typical Applications**

- Signs/Signals
- Machine Vision
  - Automotive Lighting
- Illumination

## **Company Information**

Lumileds is a world-class supplier of Light Emitting Diodes (LEDs) producing billions of LEDs annually. Lumileds is a fully integrated supplier, producing core LED material in all three base colors (Red, Green, Blue) and White. Lumileds has R&D development centers in San Jose, California and Best, The Netherlands. Production capabilities in San Jose, California and Malaysia.

Lumileds is pioneering the high-flux LED technology and bridging the gap between solid state LED technology and the lighting world. Lumileds is absolutely dedicated to bringing the best and brightest LED technology to enable new applications and markets in the Lighting world.



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## LUMILEDS

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