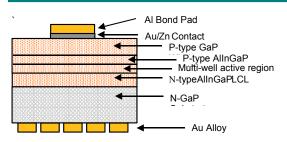
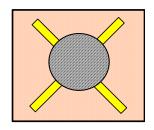
Lumileds P4 Series LED Chips

Technical Data DS42

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

Outline Drawings





Optoelectric Parameters

			Dominant Wayelength (λD, nm) Test Current = I OmA			INTENSITY (Iv, mcd) Test Current = 40mA		
Part Number	Color	MAX DRIVE CURRENT	Min.	TYP.	Max.	Min.	TYP.	Max.
HWFR-B317	Amber	150мА	585	590	595	110	160	
HWFR-B417	RED-ORANGE	150мА	612	618	625	200	300	
HWFR-B5 I 7	RED	I 50mA	618	626	635	110	160	

Part		TEST	Forward Voltage (Vf, V)		REVERSE VOLTAGE (VBR, V) @ IOOUA
Number	Color	CURRENT	TYP.	Max.	Min.
HWFR-B317	Amber	40mA	2.3	3.0	-6.0
HWFR-B417	RED-ORANGE	40mA	2.3	3.0	-6.0
HWFR-B5 I 7	RED	40mA	2.3	3.0	-6.0

Mechanical Dimensions

MECHANICAL DIMENSIONS

CHIP PRESENTATION

CHIP SIZE
JUNCTION AREA
CHIP THICKNESS
TOP METAL
BACK METAL

| 2 X | 2 MILS | 2 X | 2 MILS | 0.5 +/- | 1.5 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.

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.

Lumileds may make process or materials changes affecting the performance or other characteristics of our products. These products supplied after such changes will continue to meet published specifications, but may not be identical to products supplied as samples or under prior orders.

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