HWFR-B310 HWFR-B410 HWFR-B510

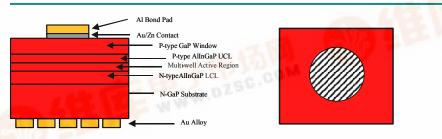
Lumileds P3 Series TS AllnGaP Chips

Technical Data DS31

捷多邦,专业PCB

P3 Series transperent substrate AllnGaP chips deliver high flux performance.

Outline Drawings



Optical Characteristics at T=25°C [See notes 1, 2, and 3]

Part		Dominant Wavelength @5mA (λD, nm)		INTENSITY @20MA (Iv, mcd)		FLUX @20mA (mlm/A)	
Number	Color	Min.	TYP.	MAX.	Min.	MAX.	TYP.
HWFR-B310 #101	Amber	584	and had	595	70	90	
HWFR-B310 #102	AMBER	584	201	595	90	-	-
HWFR-B310 #112	AMBER	584	590.5	595	70, 60%M	м >90	55
HWFR-B410 #102	RED/ORANGE	612	n25V	625	100	-	-
HWFR-B510 #101	RED	624		635	70	100	-
HWFR-B510 #102	RED	624	-	635	100	-	-
HWFR-B510 #112	RED	624	629	635	70, 60%Mı	N >100	70

Electrical Characteristics at T=25°C [See notes 1 and 3]

100%

100%

SAMPLE

SAMPLE

Part		Reverse Voltage @ 100µA (Vbr, V)	Forward	Voltag <mark>e</mark> @)20mA
Number	Color	Min	Min.	TYP.	MAX.
HWFR-B3 I O HWFR-B4 I O HWFR-B5 I O	Amber Red/Orange Red	-6.0 -6.0 -6.0	2.0 2.0 2.0 2.0	2.35 2.25 2.25	2.6 2.6 2.6

Visual Inspection and Testing [See note 1]

VISUAL INSPECTION VF & VR TESTING IV TESTING LAMBDA TESTING CONFILTER PDF

Nominal Mechanical Specifications

CHIP SIZE (MILS)	8.6 X 8.6		
CHIP HEIGHT (MILS)	10.5 +/- 1.5 міls		
JUNCTION AREA (SQ. MILS)	74		
Top Metal	AL/AU ZN		
BACK METAL	Au/Ge		
CHIP PRESENTATION [SEE NOTE 4]			

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

Notes:

- Iv and lambda values are based on a 21 die sample. Vf, and Vr are 100% tested.
- Flux measurements were made using 5mm LED lamp packages encapsulated with epoxy and are for information only.
- Typical values given are the average values expected and are for information only.
- 4. Chips are mounted on 6 inch diameter photon rings utilizing 4 mil thick tape.

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.

> 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.

Lumileds may make process

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