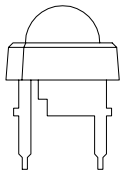
FCL-P5DXXWCCI Range

7.6 mm Square Domed Bi-Colour LED Lamp

Features:

- Bi-Colour
- Water clear epoxy
- Low thermal resistance copper leadframe
- 4 leads with stand off
- Class II ESD Rating

Electro / Optical Characteristics I_F = 20 mA T_a = 25° C

Lamp Package	LED Part Number	Die Ref	Emitting Colour	Epoxy Type	Die Material	Wavelength		Forward Voltage V_F		Luminous intensity I_V		Viewing ∠ 2θ½
						Peak λ_P	Dominant λ_d	typical	max	min	typical	
	FCL-P5DR078G03WCCI	1	Red	WC	AlGaInP	632	624	2.00	2.40	-	400	65
		2	Green		InGaN/SiC	518	525	3.70	4.20	-	400	
	FCL-P5DY109B12WCCI	1	Yellow	WC	AlGaInP	587	585	2.00	2.40	-	500	65
		2	Blue		InGaN/SiC	468	470	3.75	4.00		260	
7.6 x 7.6 mm	Units					nm		V		mcd per die		deg

It is the responsibility of the customer to verify the suitability of the product for the application.

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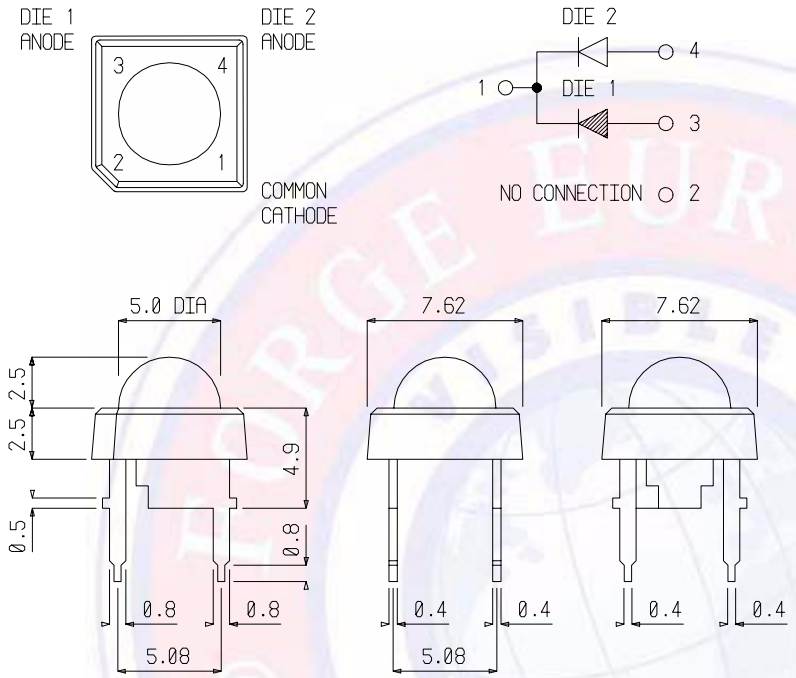
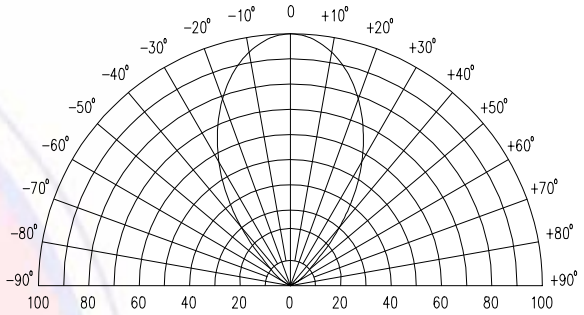
Package Outline

Dimensions in mm
Tol ± 0.25 mm
unless stated



Radiation Diagram

$T_a = 25^oC$



Relative angular intensity

Note:
Due to manufacturing tolerances the maximum intensity position may deviate from the 0^o point.

Maximum Ratings per die $T_a = 25°$ C (Derate above 25° C)

Characteristic	Condition		Symbol	Rating
Pulse Forward Current	0.1 duty cycle @ 1KHz	AlGaInP die	I_{FP}	100
DC Forward Current			I_F	50
Reverse Voltage	I_R = 10 µA		V_R	10
Pulse Forward Current	0.1 duty cycle @ 1KHz	InGaN/SiC die	I_{FP}	100
DC Forward Current			I_F	35
Reverse Voltage	I_R = 10 µA		V_R	5
Operating Temperature			T_{opr}	- 20 to + 80
Storage Temperature			T_{stg}	- 20 to + 100
Lead soldering temperature	1.6 mm from body - max. 3 seconds			240

Note

Consideration must be given to forward current levels at elevated temperatures when driving all dice simultaneously to ensure maximum efficiency over the life of the product.

Industry standard procedures regarding static must be observed when handling product produced with the following die material.

InGaN/SiC

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