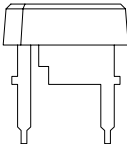


Features:

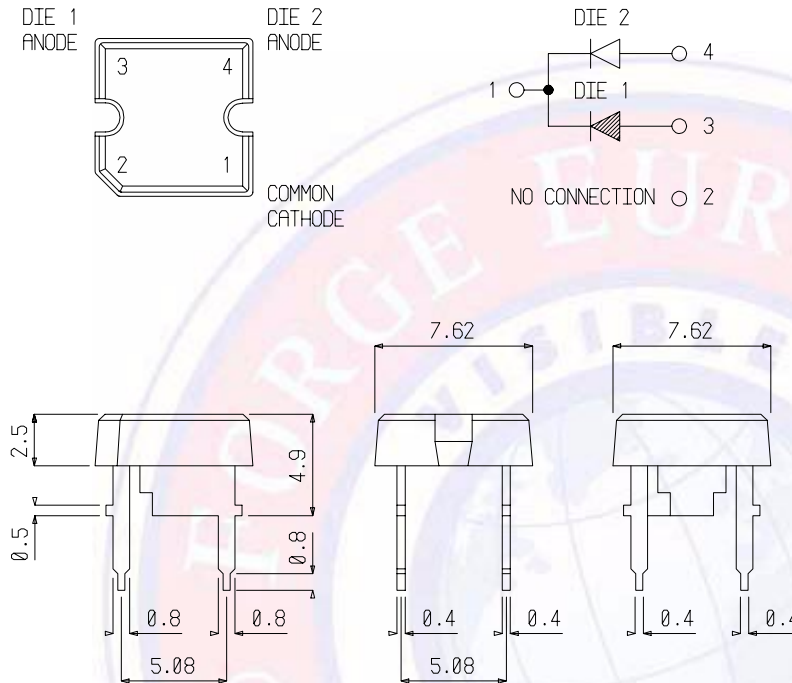
- Two dice - Single colour or Bi-Colour
- Water clear epoxy
- Low thermal resistance copper leadframe
- 4 leads with stand off
- Class II ESD Rating

Electro / Optical Characteristics $I_F = 20 \text{ mA}$ $T_a = 25^\circ \text{ C}$

Lamp Package	LED Part Number	Die Ref	Emitting Colour	Epoxy Type	Die Material	Wavelength		Forward Voltage V_F		Luminous intensity I_V		Viewing \angle $2\theta_{1/2}$	
						Peak λ_p	Dominant λ_d	typical	max	min	typical		
	FCL-P115R078G03WCCI	1	Red	WC	AlGaInP	632	624	2.00	2.40	-	140	115	
		2	Green		InGaN/SiC	518	525	3.70	4.20	-	140		
	FCL-P115Y109B12WCCI	1	Yellow	WC	AlGaInP	587	585	2.00	2.40	-	180	115	
		2	Blue		InGaN/SiC	468	470	3.75	4.00		100		
	FCL-P115R078R078WCCI	1	Red	WC	AlGaInP	632	624	2.00	2.40	-	140	115	
		2	Red										
	FCL-P115Y048Y048WCCI	1	Yellow	WC	AlGaInP	591	589	2.00	2.40	-	180	115	
		2	Yellow										
	FCL-P115G03G03WCCI	1	Green	WC	InGaN/SiC	518	525	3.70	4.20	-	140	115	
		2	Green										
7.6 x 7.6 mm	Units					nm		V		mcd per die		deg	

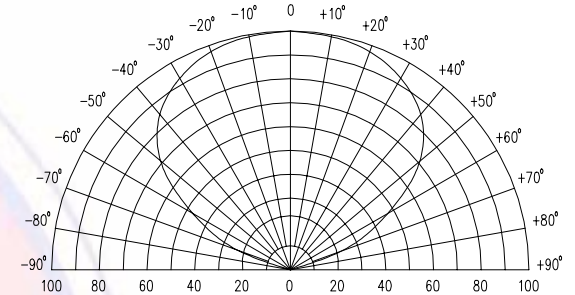
Package Outline

Dimensions in mm
Tol ± 0.25 mm
unless stated



Radiation Diagrams

$T_a = 25^\circ\text{C}$



Relative angular intensity

Note:

Due to manufacturing tolerances the maximum intensity position may deviate from the 0° point.

Maximum Ratings per die $T_a = 25^\circ\text{C}$ (Derate above 25° C)

Characteristic	Condition	Symbol	Rating
Pulse Forward Current	0.1 duty cycle @ 1KHz	I_{FP}	100
DC Forward Current		I_F	50
Reverse Voltage	$I_R = 10 \mu\text{A}$	V_R	10
Pulse Forward Current	0.1 duty cycle @ 1KHz	I_{FP}	100
DC Forward Current		I_F	35
Reverse Voltage	$I_R = 10 \mu\text{A}$	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 when driving both 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