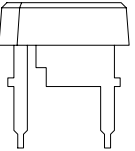


- Features:**
- Three dice - Tri-colour
  - Water clear epoxy
  - Low thermal resistance copper leadframe
  - 4 leads with stand off
  - Class II ESD Rating

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

LED Lamp Package	LED Part Number	Emitting Colour	Epoxy Type	Die Material	Wavelength		Forward Voltage $V_F$		Luminous intensity $I_V$		Viewing $\angle$ $2\theta_{1/2}$
					Peak $\lambda_p$	Dominant $\lambda_d$	typical	max	min	typical	
	FCL-P115R078G03B12WCCI	Red	WC	AlGaInP	632	624	2.00	2.40	-	140	115
		Green		InGaN/SiC	518	525	3.70	4.20	-	140	
		Blue		InGaN/SiC	468	470	3.75	4.00	-	100	
7.6 x 7.6 mm	Units				nm		V		mcd		deg

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

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

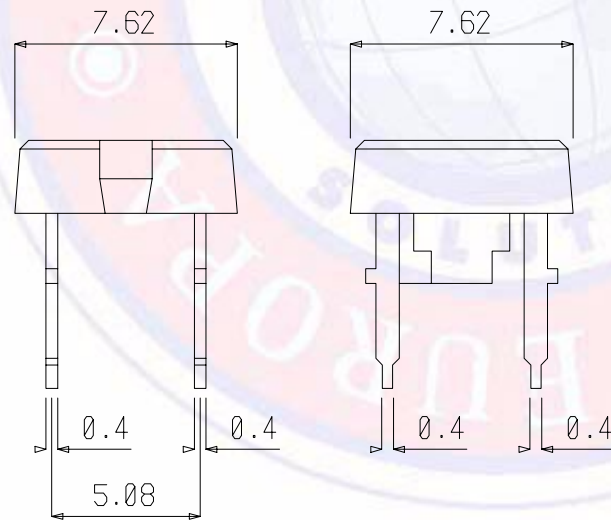
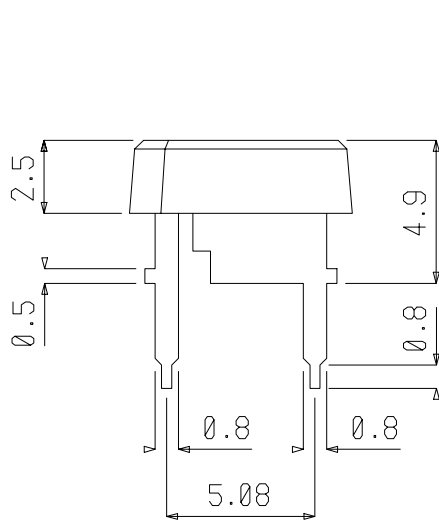
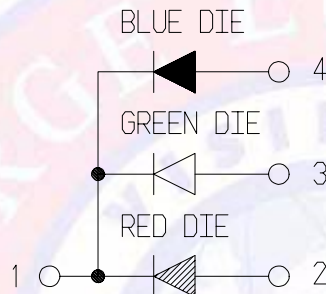
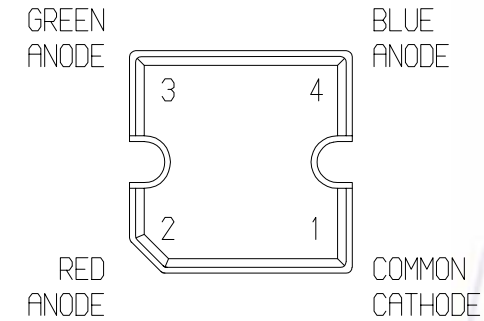
InGaN/SiC

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

## Package Outline

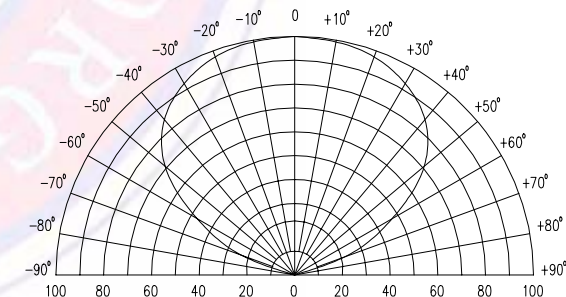
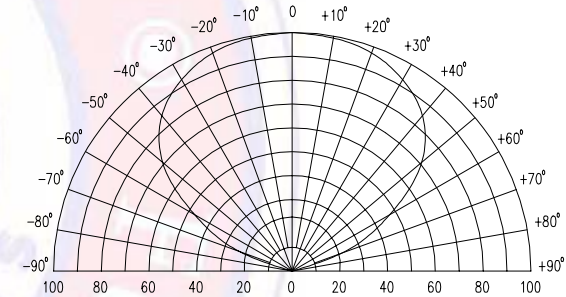
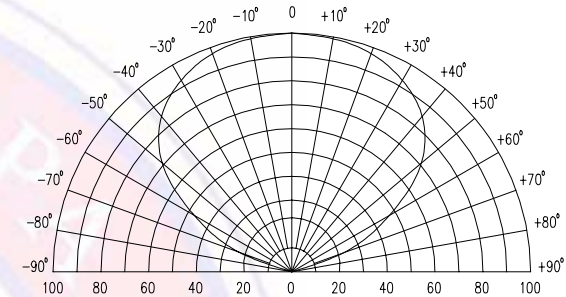
Dimensions in mm

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.