

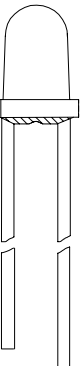
## Features:

- High intensity
- Water clear epoxy
- Range of colours

## Available options:

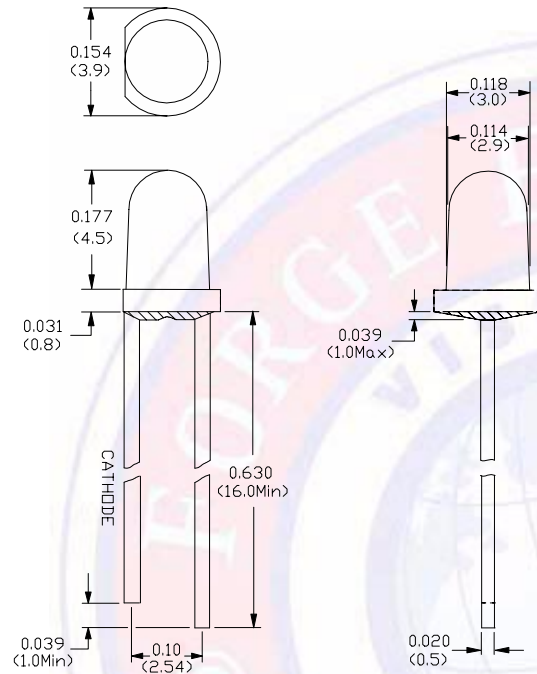
- Flangeless Package

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

Lamp Package	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	
	FNL-U300R078WCSL	Red	WC	AlGaInP	632	624	2.00	2.40	-	990	35
	FNL-U300R2110WCSL	Red	WC	AlGaInP	632	624	2.10	2.50	-	1280	35
	FNL-U300R2112WCSL	Red	WC	AlGaInP	632	624	2.10	2.50	-	1780	35
	FNL-U300O0810WCSL	Orange	WC	AlGaInP	621	615	2.10	2.40	-	930	35
	FNL-U300O0812WCSL	Orange	WC	AlGaInP	621	615	2.10	2.40	-	1300	35
	FNL-U300O038WCSL	Orange	WC	AlGaInP	611	605	2.00	2.40	-	720	35
	FNL-U300Y048WCSL	Yellow	WC	AlGaInP	591	589	2.00	2.40	-	980	35
	FNL-U300Y1510WCSL	Yellow	WC	AlGaInP	591	589	2.10	2.50	-	1270	35
	FNL-U300Y1512WCSL	Yellow	WC	AlGaInP	591	589	2.10	2.50	-	1760	35
	FNL-U300G03WCSL	Green	WC	InGaN/SiC	518	525	3.70	4.20	-	950	35
	FNL-U300G16WCSL	Green	WC	InGaN/SiC	518	527	3.85	4.00	-	2130	35
	FNL-U300G06WCSL	Green	WC	InGaN/SiC	502	505	3.70	4.20	-	1160	35
	FNL-U300G11WCSL	Green	WC	InGaN/SiC	502	505	3.80	4.00	-	2130	35
	FNL-U300B07WCSL	Blue	WC	InGaN/SiC	488	490	3.70	4.20	-	790	35
	FNL-U300B03WCSL	Blue	WC	InGaN/SiC	468	470	3.70	4.20	-	380	35
	FNL-U300B12WCSL	Blue	WC	InGaN/SiC	468	470	3.75	4.00	-	740	35
	FNL-U300B17WCSL	Blue	WC	InGaN/SiC	-	470 $\pm$ 5	3.50	3.80	-	1000	35
	FNL-U300B06WCSL	Blue	WC	InGaN/SiC	458	460	3.70	4.20	-	320	35
FNL-U300B11WCSL	Blue	WC	InGaN/SiC	458	460	3.75	4.00	-	510	35	
FNL-U300B15WCSL	Blue	WC	InGaN/SiC	-	460 $\pm$ 5	3.50	3.80	-	640	35	
3 mm	Units				nm		V		mcd		deg

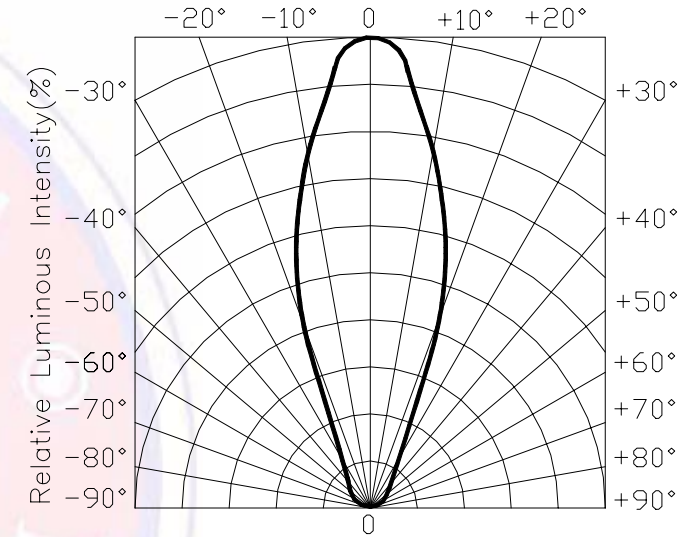
## Package Outline

Dimensions in mm  
Tol  $\pm 0.25$  mm  
unless stated



## Radiation Diagram

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



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

Characteristic	Condition	Symbol	Rating	Units
Pulse Forward Current	0.1 duty cycle @ 1KHz	$I_{FP}$	100	mA
DC Forward Current		$I_F$	50	mA
Reverse Voltage	$I_R = 10 \mu\text{A}$	$V_R$	10	V
Pulse Forward Current	0.1 duty cycle @ 1KHz	$I_{FP}$	100	mA
DC Forward Current		$I_F$	30	mA
Reverse Voltage	$I_R = 10 \mu\text{A}$	$V_R$	5	V
Operating Temperature		$T_{opr}$	- 20 to + 80	$^\circ\text{C}$
Storage Temperature		$T_{stg}$	- 20 to + 100	$^\circ\text{C}$
Lead soldering temperature	1.6 mm from body - max. 3 seconds		240	$^\circ\text{C}$

### Note:

Industry standard procedures regarding static must be observed when handling product with InGaN/SiC die.



### WARNING

This range of LEDs is produced with die having a high radiant flux. Care must be taken when viewing the product at close range as the light may be intense enough to cause damage to the human eye.