

Features

- Three dice - Fluorescent type white light
- Ultra wide angle
- Low thermal resistance copper leadframe
- 4 leads with stand off as standard
- Volume production can be bin coded for hue (3 grades)
- Class II ESD Rating

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

Lamp Package	Part Number	Dice Qty	Emitting Colour	Epoxy Type	Die Material	Chromaticity Coordinates		Forward Voltage V_F	
						x	y	typical	max
	FSL-P115W12TWCCI	3	White	WC	InGaN/SiC	0.31	0.32	3.50	3.80
7.6 x 7.6 mm	Units					Typical		VDC	

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

Luminous intensity I_V	Viewing \angle
typical	@ I_F / Die
1080	30
	115
mcd	mA
	deg

Note: Intensity figures shown are with all dice powered

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

Characteristic	Condition	Symbol	Rating / die	Units
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}	- 30 to + 85	$^\circ \text{ C}$
Storage Temperature		T_{stg}	- 40 to + 100	$^\circ \text{ C}$
Lead soldering temperature	1.6 mm from body - max 5 seconds		260	$^\circ \text{ C}$



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.

Note: Industry standard procedures regarding static must be observed when handling this product. 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.

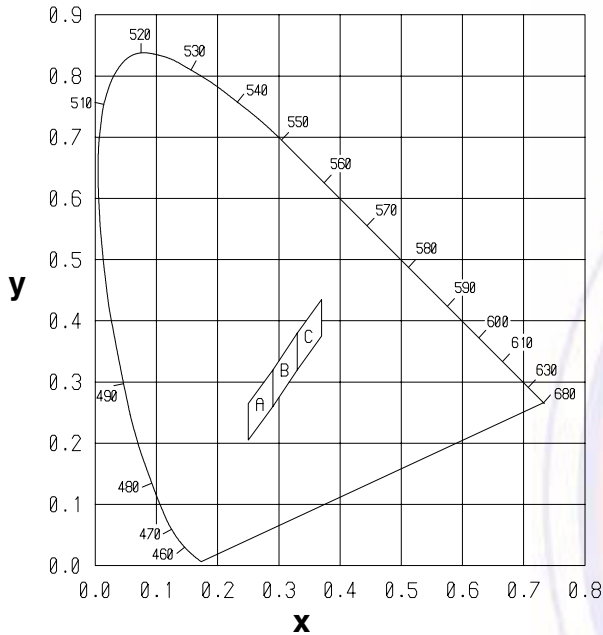
It is the responsibility of the customer to verify the suitability of the product for the application.

Chromaticity Ranking

Package Outline

Dimensions in mm Tol ± 0.25 mm unless stated

CIE 1931 Chromaticity Diagram

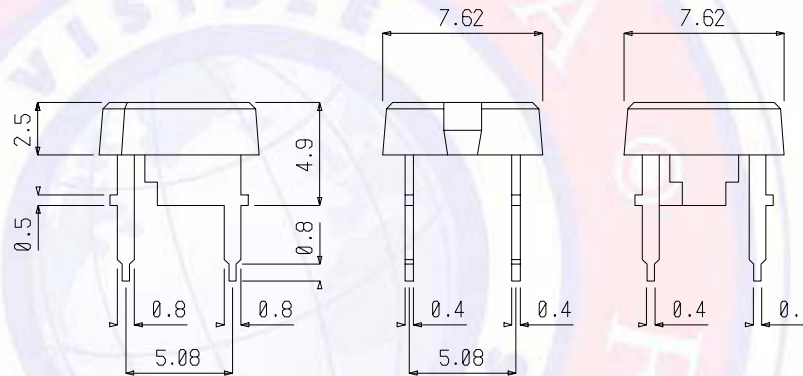
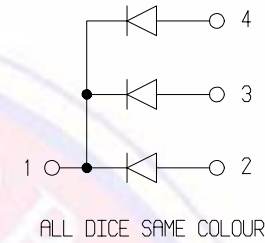
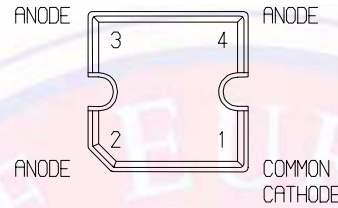


Rank A				
x	0.250	0.250	0.290	0.290
y	0.205	0.265	0.320	0.260

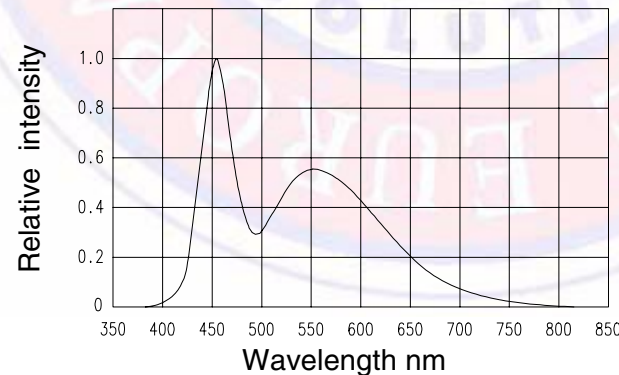
Rank B				
x	0.290	0.290	0.330	0.330
y	0.260	0.320	0.380	0.320

Rank C				
x	0.330	0.330	0.370	0.370
y	0.320	0.380	0.435	0.375

Measurement Tolerance x and y ± 0.02



Emission Spectrum $T_a = 25^\circ\text{C}$ $I_F = 20\text{ mA}$



Radiation Diagram $T_a = 25^\circ\text{C}$ $I_F = 20\text{ mA}$

