



## SPECIFICATION

Description:

30 Degree 5mm LITEFO Lamp in Blue  
Color with Water Transparent Lens and  
Stopper

Dice Material: InGaN

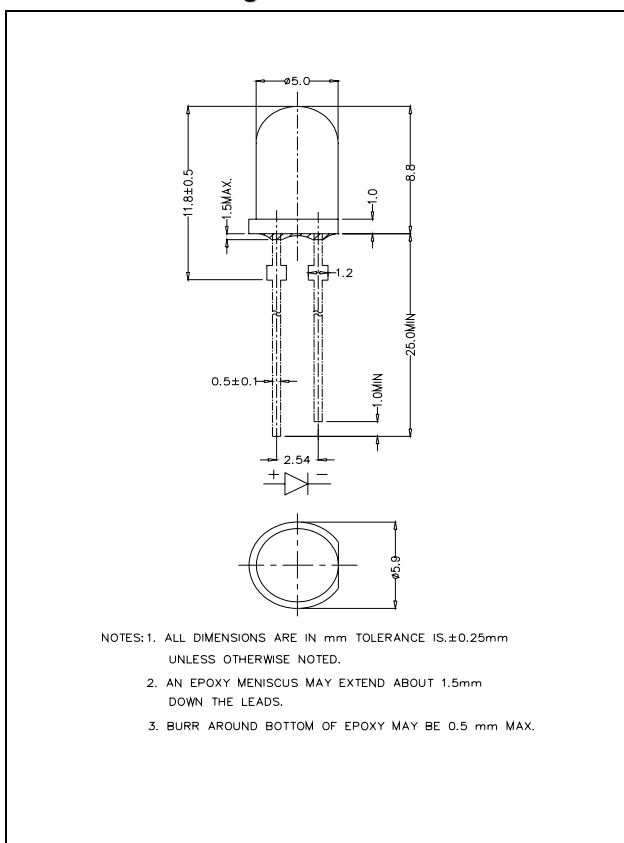
MODEL No : FC530APBL11



Confirmed  
by Customer: \_\_\_\_\_

Date: \_\_\_\_\_

## Dimension Drawing



## Applications

- Advertising Signs
- Indicators
- LCD Back Light
- Moving Message Signs

## Absolute Maximum Ratings at Ta = 25°C

Items	Symbol	Absolute maximum Rating	Unit
Forward Current	$I_F$	25	mA
Peak Forward Current*	$I_{FP}$	100	mA
Reverse Voltage	$V_R$	5	V
Power Dissipation	$P_D$	105	mW
Operation Temperature	$T_{opr}$	-40 ~ + 95	°C
Storage Temperature	$T_{stg}$	-40 ~ +100	°C
Lead Soldering Temperature	$T_{sol}$	Max.260°C for 3 sec Max. (3mm from the base of the epoxy bulb)	

\* pulse width ≤0.1msec duty ≤1/10

## Typical Electrical & Optical Characteristics ( Ta = 25°C)

Items	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F = 20\text{mA}$	---	3.6	4.2	V
Reverse Current	$I_R$	$V_R = 5\text{V}$	---	---	100	μA
Dominant Wavelength	$\lambda_D$	$I_F = 20\text{mA}$	465	470	475	nm
Luminous Intensity	$I_v$	$I_F = 20\text{mA}$	770	1600	---	mcd
50% Power Angle	20½ H-H	$I_F = 20\text{mA}$	---	30	---	deg

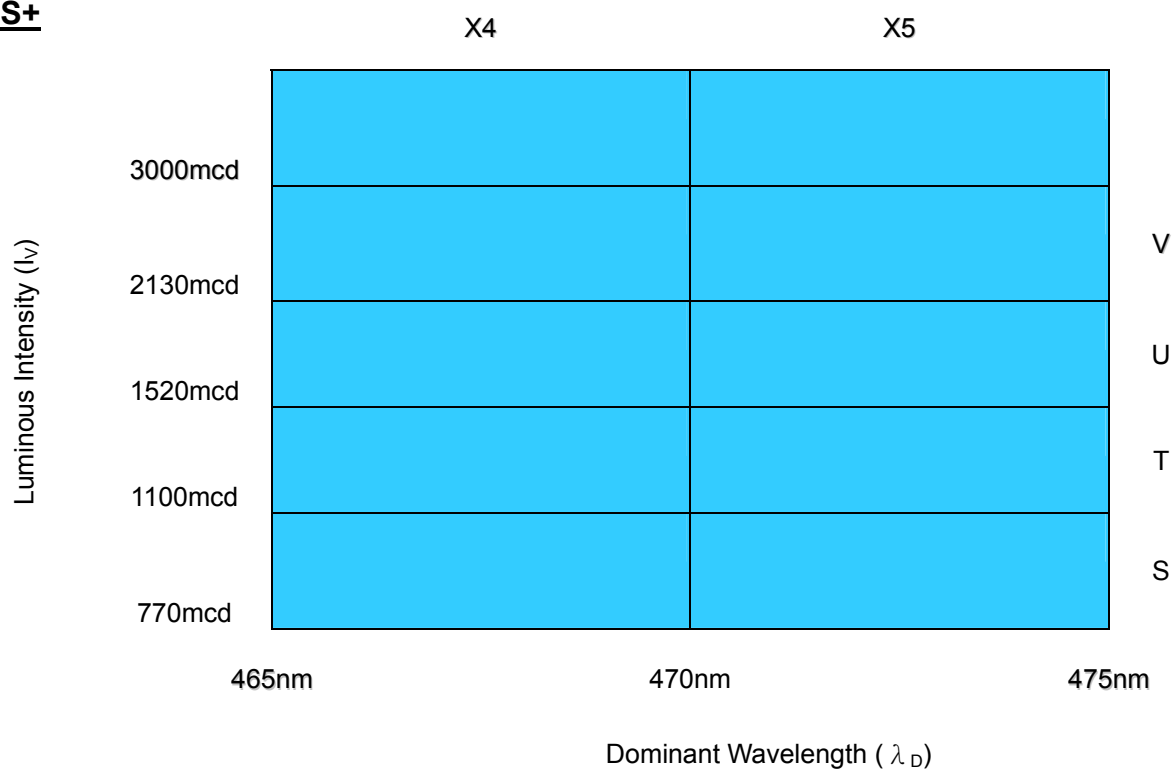
### Standard bins for FC530APBL11 ( $I_F = 20\text{mA}$ ):

Lamps are sorted to Luminous Intensity – $I_V$ ,  $V_F$  & Dominant Wavelength –  $\lambda_D$  bins shown.

Orders for FC530APBL11 may be filled with any or all bins contained as below.

All Luminous Intensity – $I_V$ ,  $V_F$  & Dominant Wavelength –  $\lambda_D$  values shown and specified are at  $I_F = 20\text{mA}$ .

\* **S+**



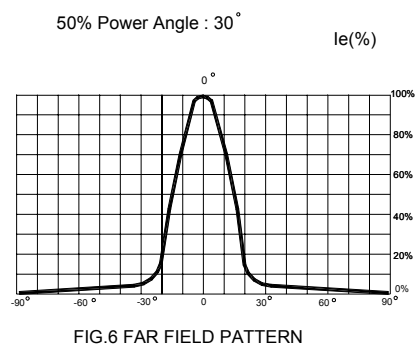
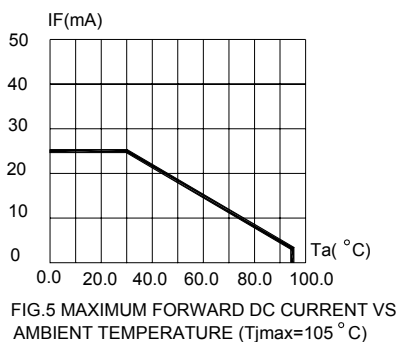
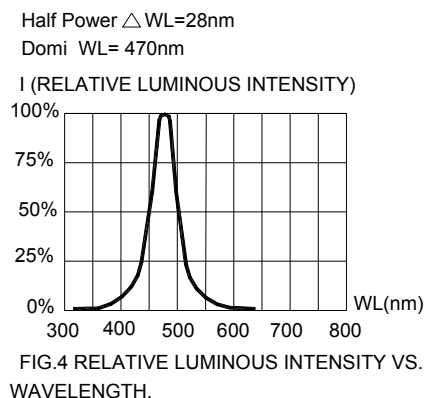
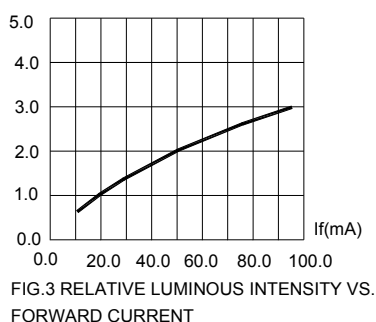
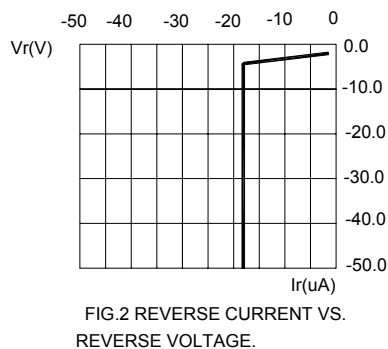
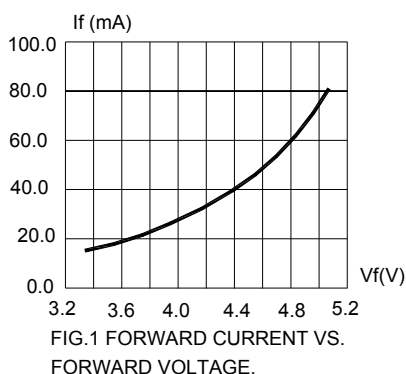
\* S+ indicates Luminous Intensity is at S bin or above.

### Forward Voltage ( $V_F$ )

Rank	V8	V9	V10	V11	V12	V13
Voltage	3.0-3.2V	3.2-3.4V	3.4-3.6V	3.6-3.8V	3.8-4.0V	4.0-4.2V

### Important Notes:

- 1) All ranks will be included per delivery, rank ratio will be determined by LITEFO.
- 2) Pb content <1000PPM.
- 3) Tolerance of measurement of luminous intensity is  $\pm 15\%$ .
- 4) Tolerance of measurement of dominant wavelength is  $\pm 1\text{nm}$ .
- 5) Tolerance of measurement of  $V_f$  is  $\pm 0.05\text{ V}$ .



Items	Signatures	Date	Revision History	
Prepared by	Lois	2004/10/07	DOC. No.	CHANGE DESCRIPTION
Checked by	Jarvis	2004/10/07	B 31May04	lv from TUV to STUV . VF add V8.
Approved by	D.W.Liu	2004/10/07	03 07Oct04	Change $T_{opr}$ & $T_{stg}$ ; Change FIG.1&3&5; Change IV& $\lambda_D$ Rank form.
ECN#	ECN-H20040274			

Data is subject to change without prior notice.

Obsoletes Doc: B 31May04.