# SPECIFICATIONS FOR UPEC FLUX TYPE PURE GREEN LED

# MODEL: UE-FR300PG0-1TP

UPEC ELECTRONICS CORPORATION

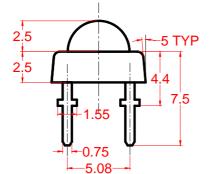
#### Features

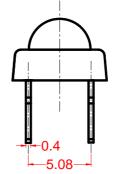
High intensity

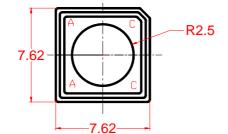
General purpose leads

Reliable and rugged

## **Package Dimensions**







Part NO.	Chip Material	Lens Color	Source Color
UE-FR300PG0-1TP	InGaN	Water Clear	Pure Green

### Notes

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25mm (.010") unless otherwise noted.
- 3. Protruded resin under flange is 1.0mm (.04") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.
- 6. Precautions for ESD:

STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

7. This data-sheet only valid for six months.

			Approved	Checked	Symbol	UPEC LED
					Noree	UE-FR300PG0-1TP
				_	Name	
-	DEC/17/04		Denny	Jerry		WIENDS348
Mark	Date	Description Approve			Drawing No	

Parameter	Symbol	Max	Unit
Power Dissipation	PD	500	mW
Pulse Forward Current	İPF	500	mA
Forward Current	lF	130	mA
Reverse Voltage	VR	6	V
Operating Temperature Range	Topr	- 25to + 85	°C
Storage Temperature Range	Tstg	- 40 to + 100	°C

# Electrical / Optical Characteristics at Ta=25

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	lv		1400		mcd	l <sub>f</sub> =70mA (Note 1)
Viewing Angle	<b>2</b> θ <sub>1/2</sub>		80		Deg	(Note 2)
Dominant Wavelength	λd		528		nm	l <sub>f</sub> =70mA (Note 3)
Forward Voltage	V <sub>F</sub>		3.5	3.8	V	lF = 70mA
Reverse Current	I <sub>R</sub>			100	μA	VR = 5V

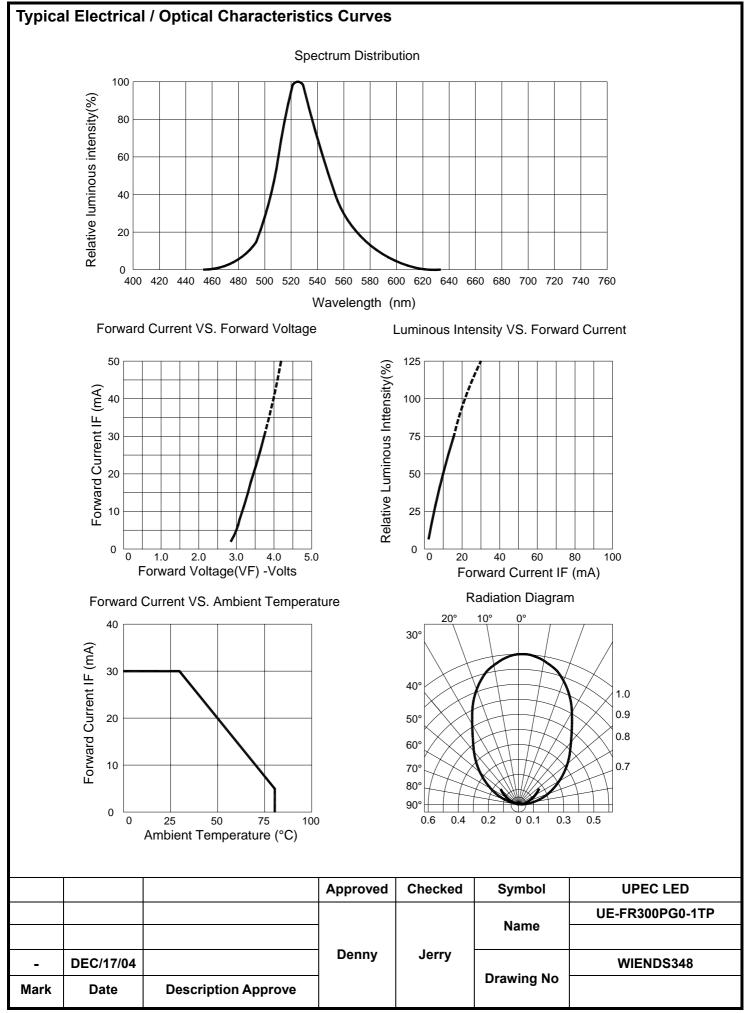
BIN	 	 	 
Range	 	 	 

Measurement Uncertainty of the Luminous Intensity: ± 15%

#### Notes

- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2.  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength ( $\lambda$ d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

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No.	Item	Test Condition	s Test Hours / C	Cycle Sample Q'ty	Ac/Re
1	Solder Heat	TEMP : 260 ±5	5 sec	22 pcs	0⁄1
2	Temperature Cycle	H∶+85 30mi ∫5min. L∶-35 30mii	50 cycle	22 pcs	0⁄1
3	Thermal Shock	H ፡ +85 ∫ 5min. L ፡ -35 5min	. 50 cycle	22 pcs	0⁄1
4	High Temperature Storage	<b>TEMP</b> : 85	1000 hrs	22 pcs	0⁄1
5	Low Temperature Storage	<b>TEMP</b> : -35	1000 hrs	22 pcs	0⁄1
6	DC Operating Life	I <sub>F</sub> =20mA	1000 hrs	22 pcs	0⁄1
7	High Temperature / High Humidity	65 /85~90%R	H. 1000 hrs	22 pcs	0⁄1
		Judgment Crite	eria		
	Forward Voltage Vf		Vf <sub>max</sub> Ir	ncrease <1.2x	
	Reverse Current Ir		Ir <sub>max</sub> I	ncrease <2x	
	Luminous Intensity Iv		lv De	ecay < 50%	
	:Measurement shall be taken after the erally after two hours)	e tested samples	nave been returned	to normal ambient co	onditions

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