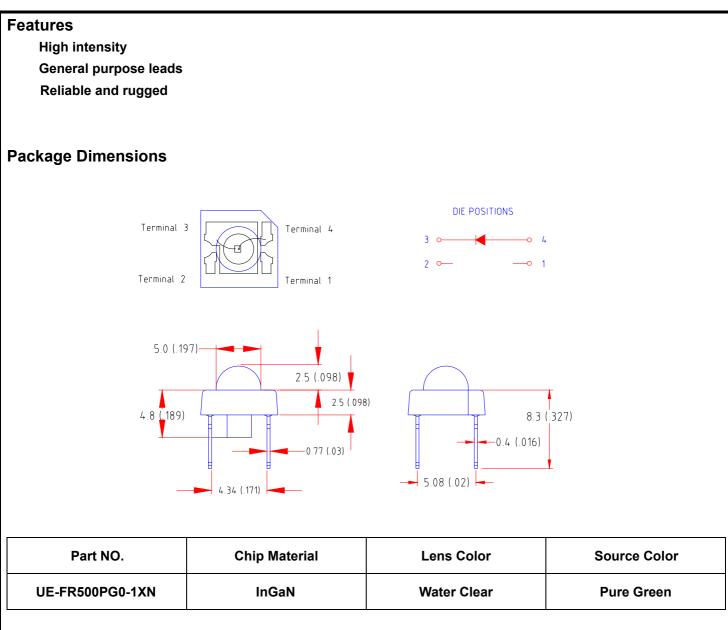
SPECIFICATIONS FOR UPEC FLUX TYPE PURE GREEN LED

MODEL: UE-FR500PG0-1XN

UPEC ELECTRONICS CORPORATION



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
					Nama	UE-FR500PG0-1XN
					Name	
-	JUN/07/04		Justin	Tsai	Drowing No.	WIENDS181
Mark	Date	Description Approve			Drawing No	

Parameter	Symbol	Max	Unit
Power Dissipation	PD	120	mW
Pulse Forward Current	İPF	100	mA
Forward Current	İF	30	mA
Reverse Voltage	VR	5	V
Operating Temperature Range	Topr	- 40 to + 80	°C
Storage Temperature Range	Tstg	- 40 to + 80	°C

Electrical / Optical Characteristics at Ta=25

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	lv	690	1500	3000	mcd	l _f =20mA (Note 1)
Viewing Angle	2 θ _{1/2}		75		Deg	(Note 2)
Dominant Wavelength	λd		525		nm	l _f =20mA (Note 3)
Forward Voltage	V _F		3.2	4.0	V	IF = 20mA
Reverse Current	I _R			100	μA	VR = 5V

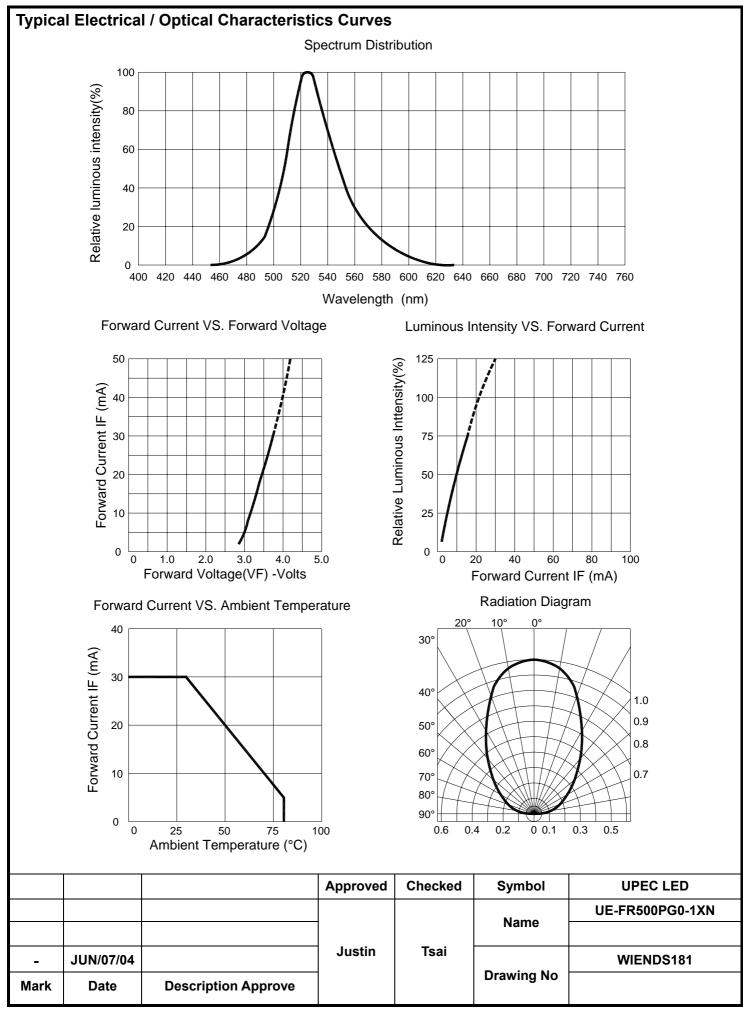
BIN	LO	LP	LQ	LR	
Range	690-1000	1000-1500	1500-2200	2200-3300	

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 (λ d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

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1 2	Solder Heat	TEMP:260 ±5 H:+85 30min.	5 sec	22 pcs	0⁄1
2					
	Temperature Cycle	f : +85 30min. ∫ 5min. L : -35 30min.	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	TEMP : 85	1000 hrs	22 pcs	0⁄1
5	Low Temperature Storage	TEMP:-35	1000 hrs	22 pcs	0⁄1
6	DC Operating Life	I _F =20mA	1000 hrs	22 pcs	0⁄1
7 F	High Temperature / High Humidity	65 /85~90%R.H.	1000 hrs	22 pcs	0⁄1
		Judgment Criteria	-	·	
	Forward Voltage Vf		Vf _{max} Increas	e <1.2x	
	Reverse Current Ir		Ir _{max} Increas	se <2x	
	Luminous Intensity Iv		lv Decay <	50%	
Note : M	Measurement shall be taken after the	e tested samples have	e been returned to nor	mal ambient co	nditions
(genera	ally after two hours)				

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