



TOYO LED ELECTRONICS LIMITED

Room 1610, Hong Kong Plaza, 188 Connaught Road West, Hong Kong.

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P/N: TY-31UG2D60-30H4-3.5

3 mm Round Type LEDs Series

SPECIFICATION FOR CUSTOMER APPROVAL

P/N:TY-31UG2D60-30H4-3.5

DATE : February 21, 2014

PREPARED BY : Yanguoliang

CONFIRMED BY :

PLEASE CONFIRM & SIGN BACK THIS SHEET TO US

CUSTOMER: _____
(COMPANY CHOP)

APPROVAL BY: _____
(SIGNATURE)



TOYO LED ELECTRONICS LIMITED

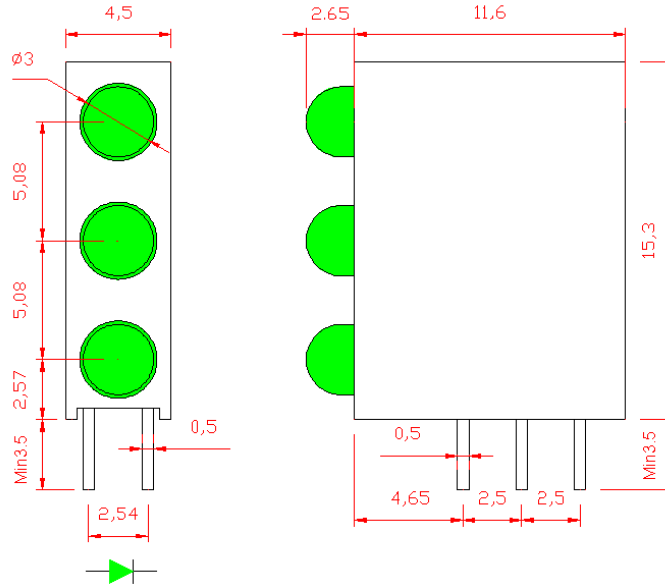
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PACKAGE DIMENSION



Selection Guide

Part No.	Chip:		Lens Color	Iv(mcd)(If=10mA)			Viewing Angle (20½)
	Raw Material	Emitted Color		MIN	TYP	MAX	
TY-31UG2D60-30H4-3.5	AlGaInP	Yellow Green	Green Diffused	15	30	-	60 °

Absolute Maximum Ratings(Ta=25C °)

Item	Symbol	Maximum	Unit
Power Dissipation	PD	65	mW
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	IFP	140	mA
Continuous Forward Current	IFmax	25	mA
Reverse Voltage	VR	5	V
Capacitance	C	15	pF
Operating / Storage Temperature Range	Topr / Tstg	-40 °C to +85 °C	
Lead Solder Temperature	Tsol	260 °C for 3 seconds	

Electrical / Optical Characteristics(Ta=25C °)

Item	Symbol	Min.	Typ.	Max.	Unit	Condition
Peak Wavelength	λ_p	-	568	-	nm	IF=20mA
Dominant Wavelength	λ_d	565	570	575	nm	IF=20mA
Forward Voltage	VF	1.8	2.3	2.6	V	IF=20mA
Reverse Current	IR	-	-	10	uA	VR=5V

NOTES:

- All dimensions are in millimeter;
- Tolerance is ± 0.25 mm, unless other specified; Luminous intensity tolerance is $\pm 10\%$;
- Dominant Emission Wavelength tolerance is $\pm 5\%$; Specifications are subject to change without notice.



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■ Typical Electro-Optical Characteristic Curve:

FIG. 1 Forward Current Vs. Forward Voltage

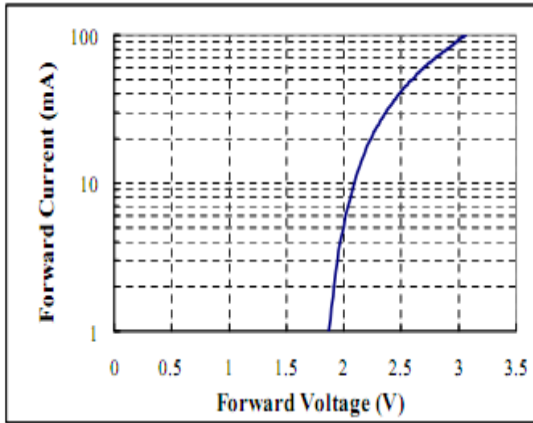


FIG. 2 Relative Intensity Vs. Forward Current

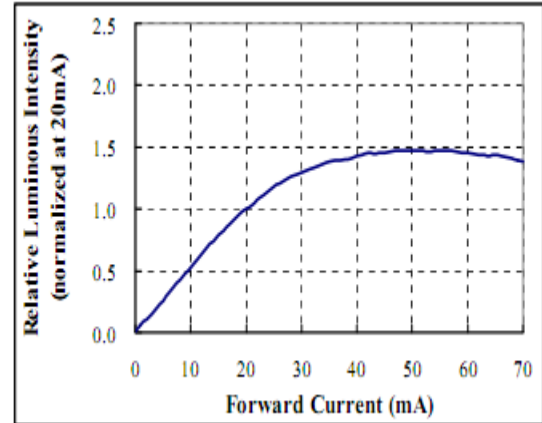


FIG. 3 Forward Voltage Vs. Temperature

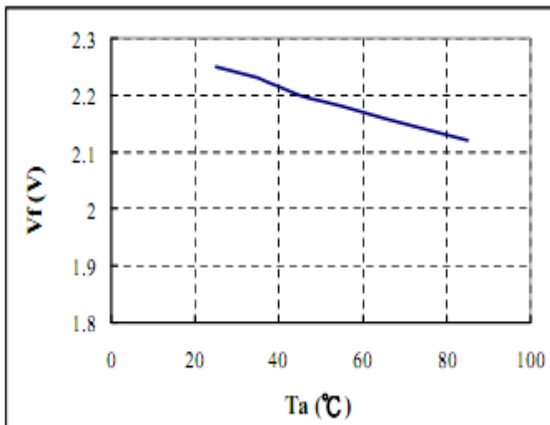


FIG. 4 Relative Intensity Vs. Temperature

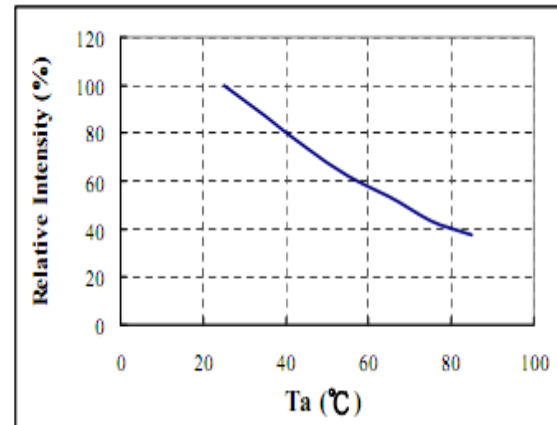
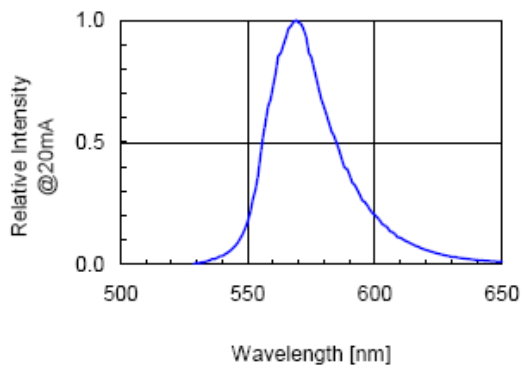


FIG. 5 Relative Intensity Vs. Wavelength





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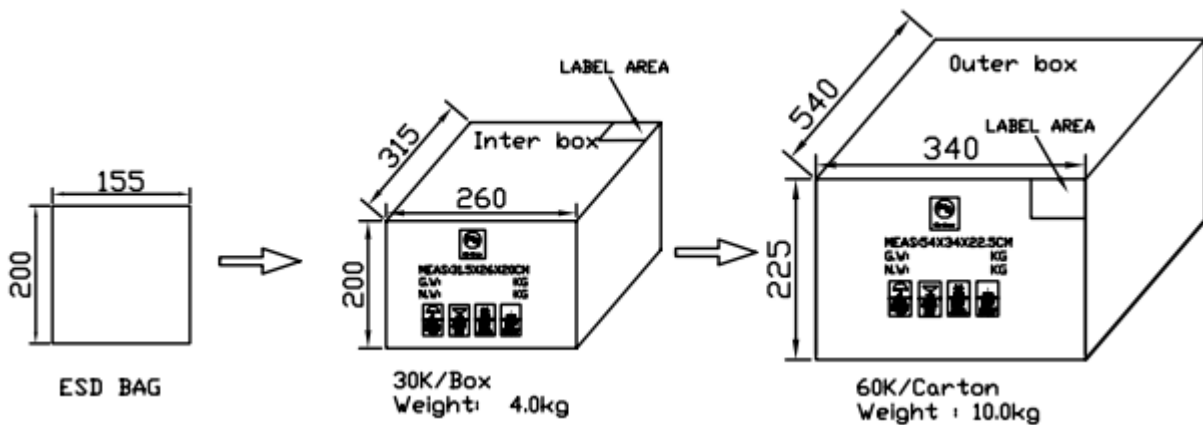
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BULK & PACKING DIMENSIONS



Notes:

1. All dimension are in millimeter;
2. Tolerance is ± 0.25 mm, unless other specified.
3. Not recommend to solder within 3mm from the resin.
4. Any kind of LEDs can be made in taped & reel.