



# TOYO LED ELECTRONICS LIMITED

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

Tel : (852) 2540 7288  
Http://www.toyo-led.com

Fax : (852) 2517 1797  
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**P/N: TY-30YG1D45-30H**

3 mm Round Type LEDs Series

# SPECIFICATION FOR CUSTOMER APPROVAL

**P/N:TY-30YG1D45-30H**

DATE : February 21, 2014

PREPARED BY : Yanguoliang

CONFIRMED BY :

**PLEASE CONFIRM & SIGN BACK THIS SHEET TO US**

**CUSTOMER:** \_\_\_\_\_  
(COMPANY CHOP)

**APPROVAL BY:** \_\_\_\_\_  
(SIGNATURE)



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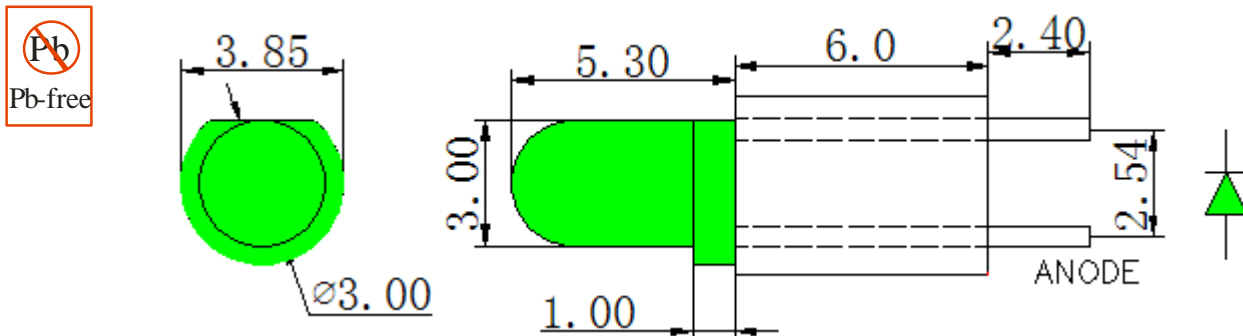
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### PACKAGE DIMENSION



### Selection Guide

Part No.	Chip:		Lens Color	Iv(mcd)(If=20mA)			Viewing Angle (2θ <sub>1/2</sub> )
	Raw Material	Emitted Color		MIN	TYP	MAX	
TY-30YG1D45-30H	GaP	Yellow Green	Green Diffused	15	30	-	45 °

### Absolute Maximum Ratings(Ta=25C °)

Item	Symbol	Maximum	Unit
Power Dissipation	P <sub>D</sub>	65	mW
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	I <sub>FP</sub>	140	mA
Continuous Forward Current	I <sub>Fmax</sub>	25	mA
Reverse Voltage	V <sub>R</sub>	5	V
Capacitance	C	15	pF
Operating / Storage Temperature Range	T <sub>opr</sub> / T <sub>stg</sub>	-40 °C to +85 °C	
Lead Solder Temperature	T <sub>sol</sub>	260 °C for 3 seconds	

### Electrical / Optical Characteristics(Ta=25C °)

Item	Symbol	Min.	Typ.	Max.	Unit	Condition
Peak Wavelength	λ <sub>p</sub>	-	568	-	nm	I <sub>F</sub> =20mA
Dominant Wavelength	λ <sub>d</sub>	565	572	575	nm	I <sub>F</sub> =20mA
Forward Voltage	V <sub>F</sub>	1.8	2.3	2.6	V	I <sub>F</sub> =20mA
Reverse Current	I <sub>R</sub>	-	-	10	uA	V <sub>R</sub> =5V

### NOTES:

- All dimensions are in millimeter(inch);
- Tolerance is ±0.25mm(0.01") unless other specified; Luminous intensity tolerance is ±10%;
- Dominant Emission Wavelength tolerance is ±5%; Specifications are subject to change without notice.



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### ■ Typical Electro-Optical Characteristic Curve:

FIG. 1 Forward Current Vs. Forward Voltage

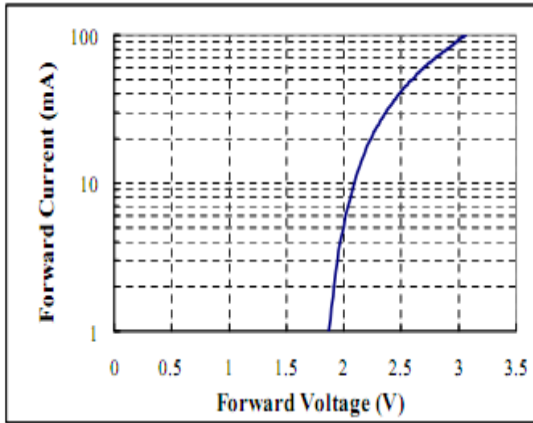


FIG. 2 Relative Intensity Vs. Forward Current

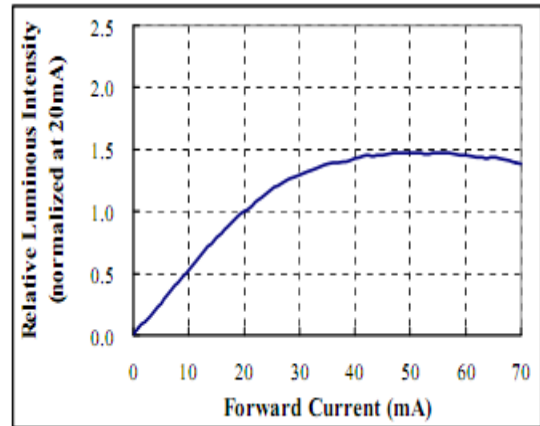


FIG. 3 Forward Voltage Vs. Temperature

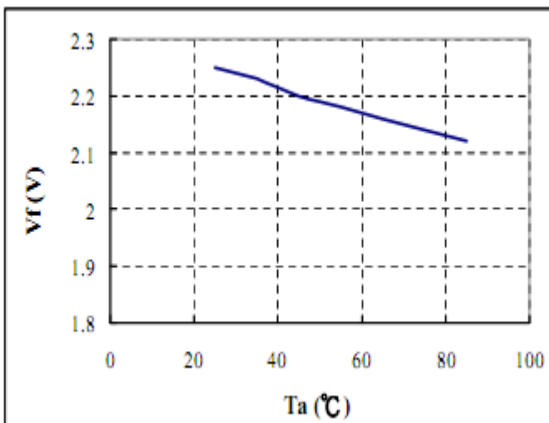


FIG. 4 Relative Intensity Vs. Temperature

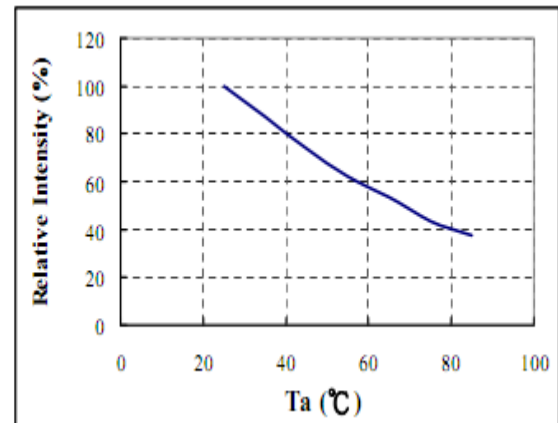
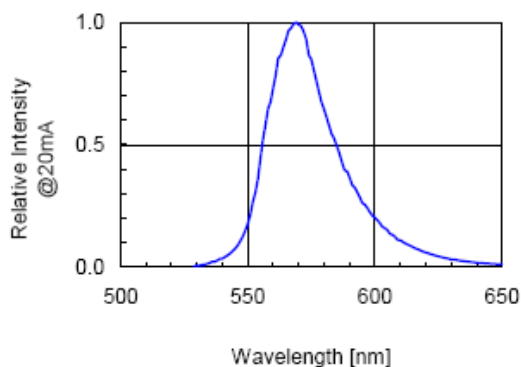


FIG. 5 Relative Intensity Vs. Wavelength





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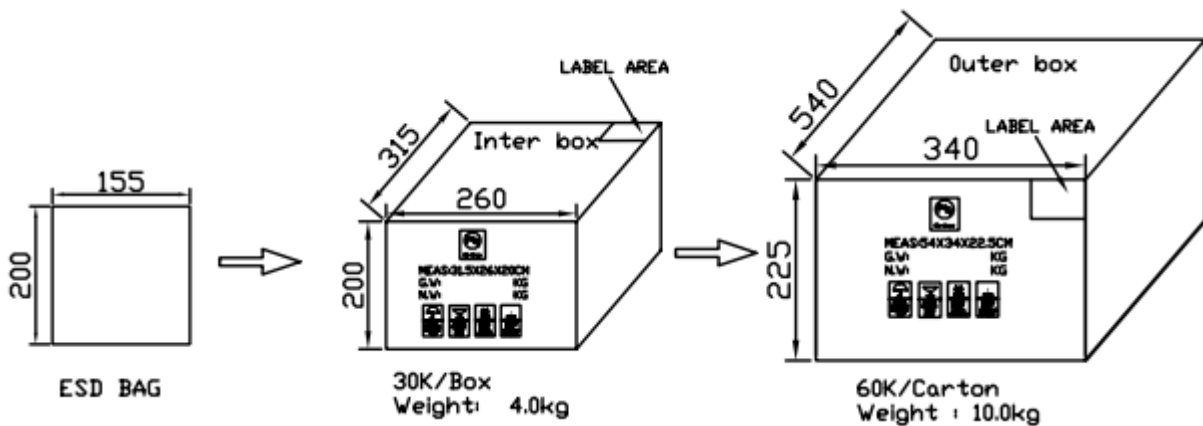
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### BULK & PACKING DIMENSIONS



#### Notes:

1. All dimension are in millimeter (inches);
2. Tolerance is  $\pm 0.25\text{mm}$  ( $0.01''$ ) unless otherwise specified.
3. Not recommend to solder within 3mm from the resin.
4. Any kind of LEDs can be made in taped & reel.