



# TOYO LED ELECTRONICS LIMITED

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**P/N: TY-30SHY1D60-25H**

3 mm Short Round Type LEDs Series

# SPECIFICATION FOR CUSTOMER APPROVAL

**P/N:TY-30SHY1D60-25H**

DATE : February 17, 2014

PREPARED BY : Yanguoliang

CONFIRMED BY :

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

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

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



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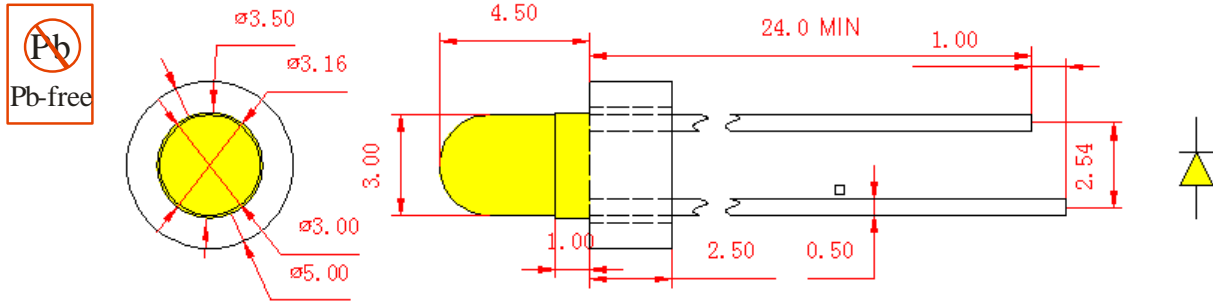
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## BULK & PACKING DIMENSIONS



### Selection Guide

Part No.	Dice		Lens Color	Iv(mcd)(IF=20mA)			Viewing Angle (20½)
	Raw Material	Emitted Color		MIN	TYP	MAX	
TY-30SHY1D60-25H	AlGaInP	Yellow	Yellow diffused	10	25	-	60 °

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

Item	Symbol	Maximum	Unit
Power Dissipation	PD	62	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	20	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	$\lambda_p$	-	583	-	nm	IF=20mA
Dominant Wavelength	$\lambda_d$	580	585	590	nm	IF=20mA
Forward Voltage	VF	-	2.1	2.3	V	IF=20mA
Reverse Current	IR	-	-	10	uA	VR=5V

#### NOTES:

- All dimensions are in millimeter(inch);
- Tolerance is  $\pm 0.25\text{mm}(0.01")$  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

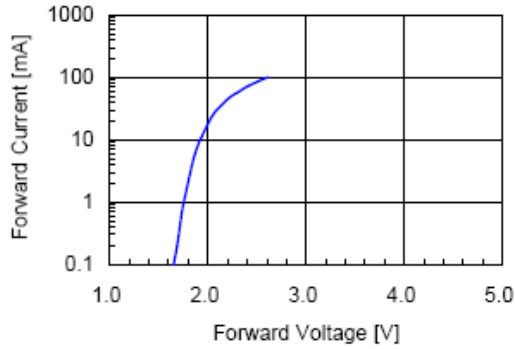


FIG. 2 Relative Intensity Vs. Forward Current

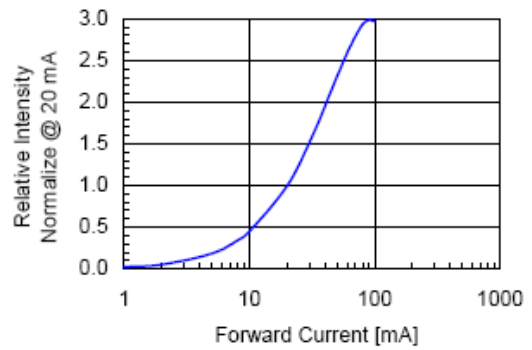


FIG. 3 Forward Voltage Vs. Temperature

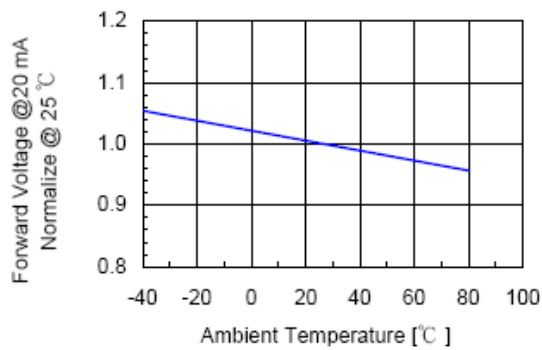


FIG. 4 Relative Intensity Vs. Temperature

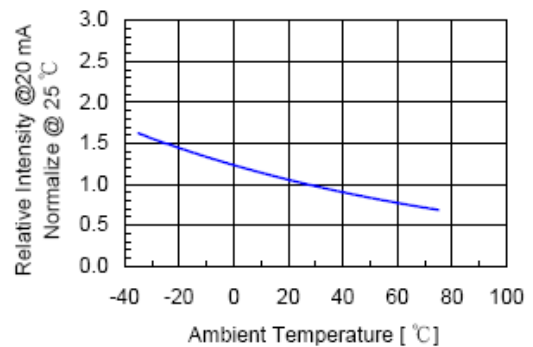
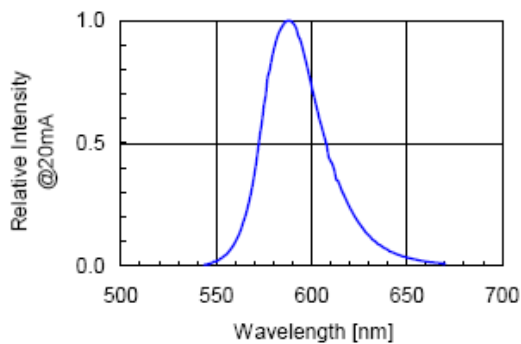


FIG. 5 Relative Intensity Vs. Wavelength





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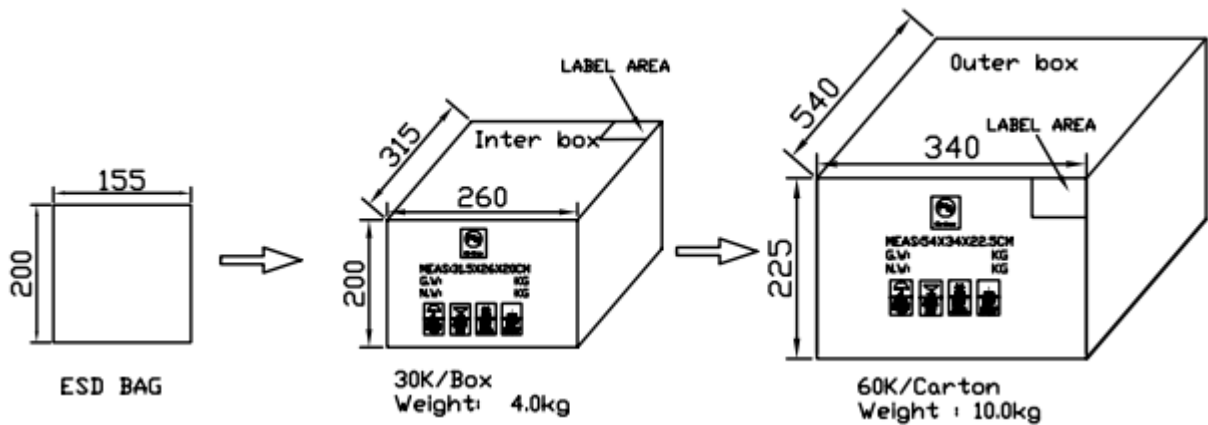
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### Notes:

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.