



TOYO LED ELECTRONICS LIMITED

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

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P/N: TY-30BL3TM25-1800

3mm Round Type LEDs Series

SPECIFICATION FOR CUSTOMER APPROVAL

P/N:TY-30BL3TM25-1800

DATE : September 28, 2013

PREPARED BY : Yanguoliang

CONFIRMED BY :

PLEASE CONFIRM & SIGN BACK THIS SHEET TO US

CUSTOMER: _____
(COMPANY CHOP)

APPROVAL BY: _____
(SIGNATURE)



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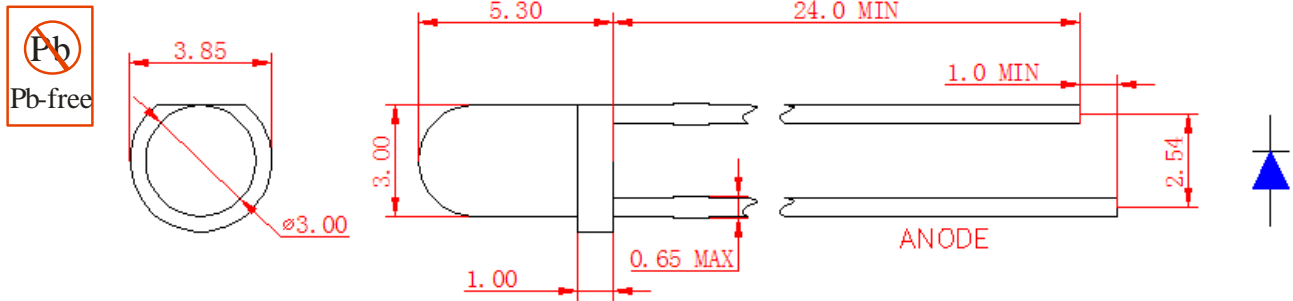
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PACKAGE DIMENSION



Selection Guide

Part No.	Dice		Lens Color	Iv(mcd)(If=20mA)			Viewing Angle (20½)
	Raw Material	Emitted Color		MIN	TYP	MAX	
TY-30BL3TM25-1800	InGaN	Blue	Tiny Milky	600	1800	--	25 °

Absolute Maximum Ratings(Ta=25C °)

Item	Symbol	Maximum	Unit
Power Dissipation	P _D	96	mW
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	I _{FP}	100	mA
Continuous Forward Current	I _{Fmax}	30	mA
Reverse Voltage	V _R	5	V
Capacitance	C	95	pF
Operating / Storage Temperature Range	T _{opr} / T _{stg}	-40 °C to +85 °C	
Lead Solder Temperature	T _{sol}	260 °C for 3 seconds	

Electrical / Optical Characteristics(Ta=25C °)

Item	Symbol	Min.	Typ.	Max.	Unit	Condition
Peak Wavelength	λ _p	-	471	-	nm	I _F =20mA
Dominant Wavelength	λ _d	450	460	470	nm	I _F =20mA
Forward Voltage	V _F	2.8	3.20	3.50	V	I _F =20mA
Reverse Current	I _R	-	-	10	uA	V _R =5V

NOTES:

- All dimensions are in millimeter;
- Tolerance is ±0.25mm, 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

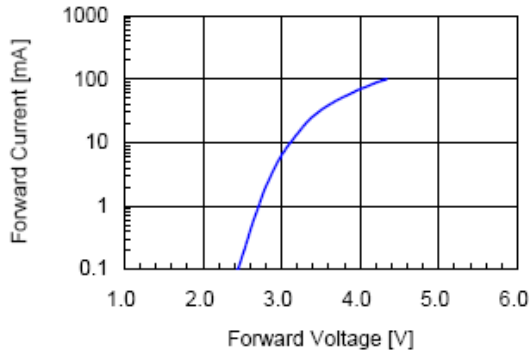


FIG. 2 Relative Intensity Vs. Forward Current

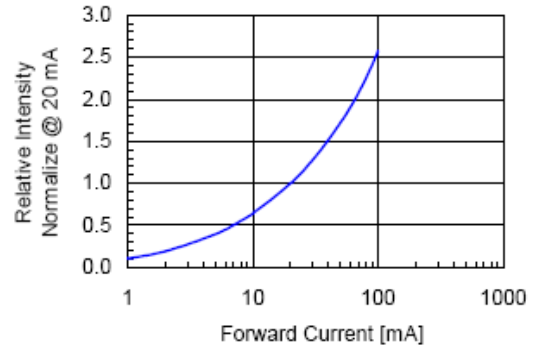


FIG. 3 Forward Voltage Vs. Temperature

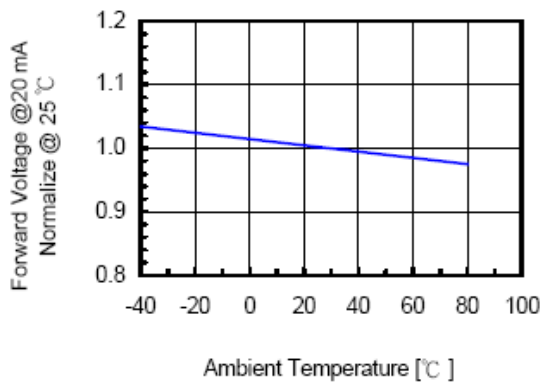


FIG. 4 Relative Intensity Vs. Temperature

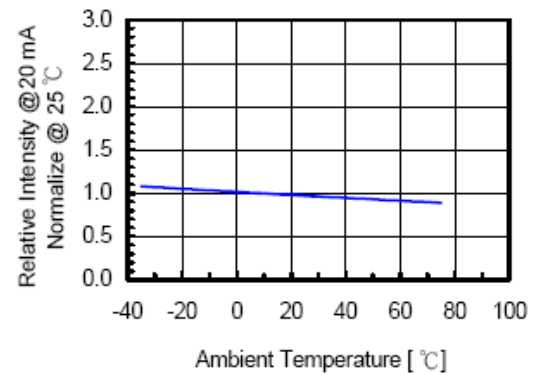
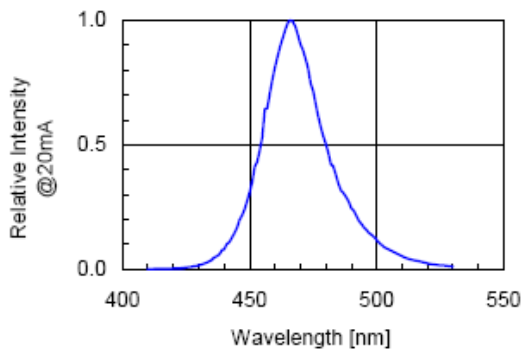


FIG. 5 Relative Intensity Vs. Wavelength





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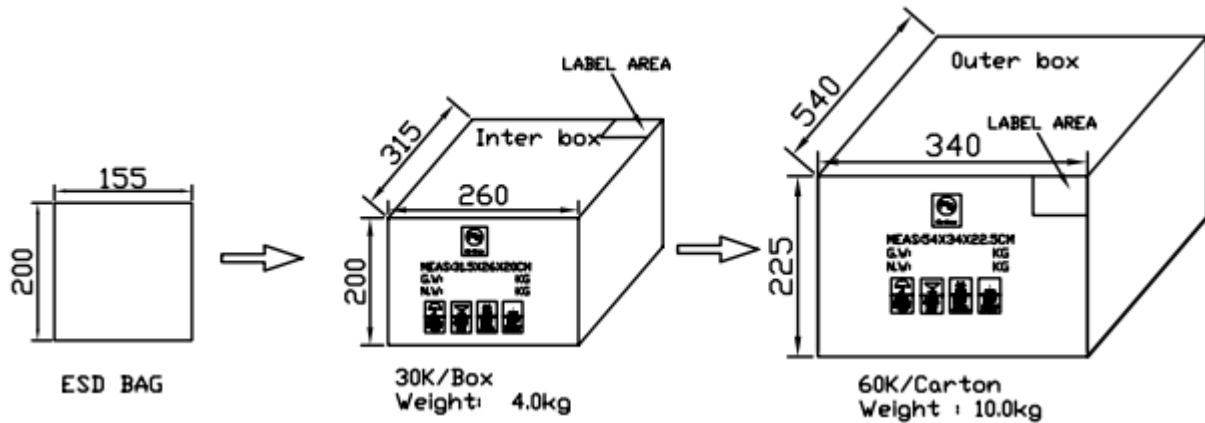
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BULK & PACKING DIMENSIONS



Notes:

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