TOYOLED ELECTRONICS LIMITED



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P/N: TY-262UY2D130-120

2mm Round Tower LEDs Series

SPECIFICATION FOR CUSTOMER APPROVAL

P/N:TY-262UY2D130-120

DATE

April 27, 2019

PREPARED BY

CONFIRMED BY



PLEASE CONFIRM & SIGN BACK THIS SHEET TO US

CUSTOMER:

APPROVAL BY:

(COMPANY CHOP)

(SIGNATURE)

OYOLED ELECTRONICS LIMITED

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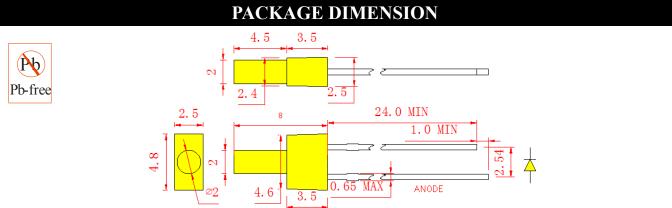


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Selection Guide

Part No.	Dic	e	Long Color	Iv(mcd)(Ir=20mA)			Viewing Angle
rart No.	Raw Material	Emitted Color	Lens Color	MIN	TYP	MAX	(201/2)
TY-262UY2D130-120	AlGaInP	Yellow	Yellow Diffused	60	120		130°

Absolute Maximum Ratings(Ta=25C°)

Item	Symbol	Maximum	Unit
Power Dissipation	Pd	78	mW
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	Ifp	90	mA
Continuous Forward Current	IFmax	30	mA
Reverse Voltage	Vr	5	V
Electrostatic discharge	ESD	1000	V
Operating Temperature Range	Topr/Tstg	-40 to+85	
Storage Temperature Range	Topr / Tstg	-40 to+100)

Electrical / Optical Characteristics(Ta=25C°)

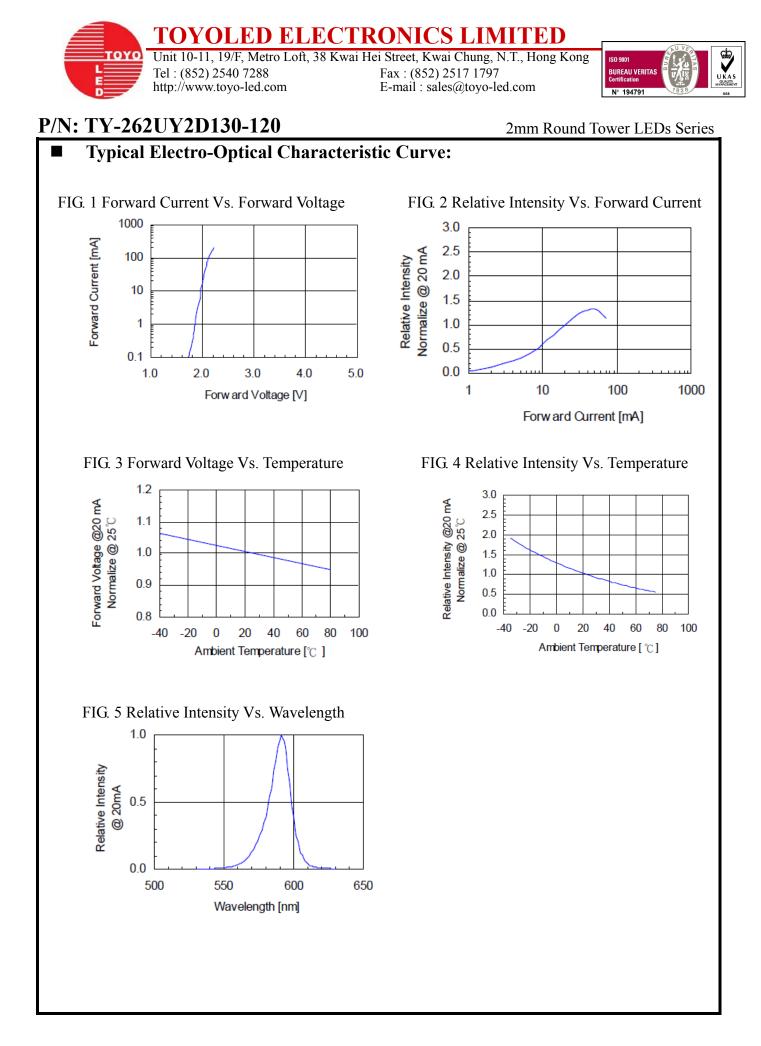
Item	Symbol	Min.	Тур.	Max.	Unit	Condition
Peak Wavelength	λp	-	596	-	nm	IF=20mA
Dominant Wavelength	λd	-	590	-	nm	IF=20mA
Spectral Line Coordinates	Δλ	-	20	-	nm	IF=20mA
Forward Voltage	VF	-	2.0	2.6	V	IF=20mA
Reverse Current	Ir	-	-	10	uA	V _R =5V

NOTES:

1. All dimensions are in millimeter(inch);

2. Tolerance is ± 0.25 mm(0.01") unless other specified; Luminous intensity tolerance is $\pm 10\%$;

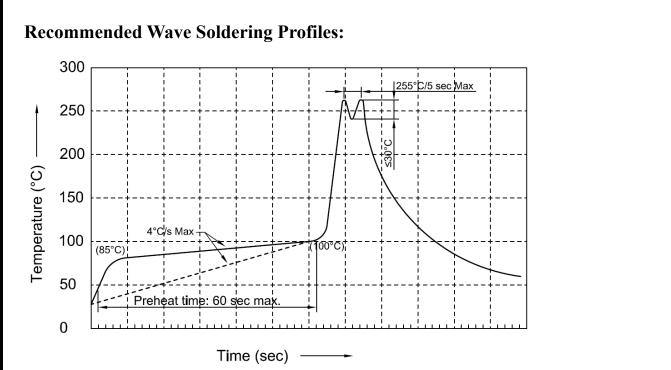
3. Dominant Emission Wavelength tolerance is ±1nm; Specifications are subject to change without notice.





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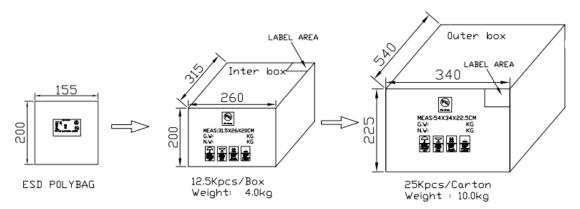


Notes:

- 1. Recommend pre-heat temperature of 105° C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260° C.
- 2. Peak wave soldering temperature between 245-255°C for 3 sec (5 sec max).
- 3. Do not apply stress to the epoxy resin while the temperature is above 85° C.
- 4. Fixtures should not apply stress on the component when mounting and soldering process.

More than one wave soldering is not allowed.





Terms and conditions for the usage of this document

- 1. The information included in this document reflects representative usage scenarios and intended for technical reference only.
- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, TOYO will not be responsible for any subsequent issues.

The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with TOYO representative for further assistance.

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.

FOR HANDLING ELECTROSTATIC NSITIVE DEVICES

DYOLED ELECTRONICS LIMITED

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Nº 19479

1.Storage conditions:

a. Prevent continued exposure to the condensing moisture environment and keep the product away from rapid transitions in ambient temperature.

b. LEDs should be stored with temperature $\leq 30^{\circ}$ C and relative humidity $\leq 60\%$.

c. Product in the original sealed package is recommended to be assembled within 72 hours of opening. Product in opened package for more than a week should be baked for 30 (+10/-0) hours at $85-100^{\circ}$ C.

2. The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component. Lead-forming may be required to insure the lead pitch matches the pitch. Refer to the figure below for proper lead forming procedures. (Fig. (1))

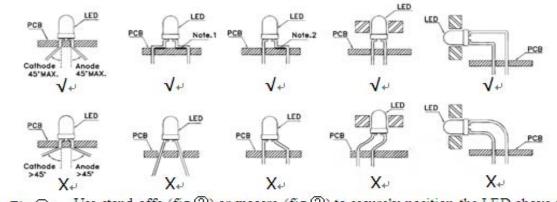
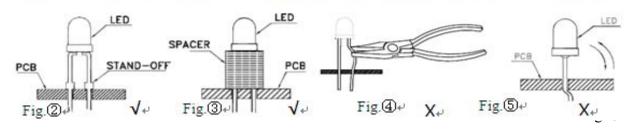


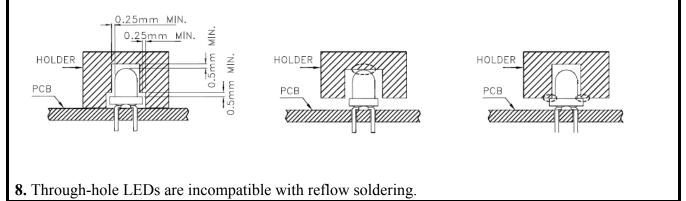
Fig. Def Use stand-offs (fig. 2) or spacers (fig. 3) to securely position the LED above the PCB.



4. During lead forming, use tools or jigs to hold the leads securely so that the bending force will not be transmitted to the LED lens and its internal structures. Do not perform lead forming once the component has been mounted onto the PCB.(fig. 4)

5. Do not bend the leads more than twice. (fig.(5))

6. During soldering, component covers and holders should leave clearance to avoid placing damaging stress on the LED during soldering



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- **9.** Cleaning:
- a. At room temperature, cleaning should occur only with isopropyl alcohol for a duration of no more than one minute when necessary. Dry at room temperature before use.
- b. Do not clean the LEDs by the ultrasonic. When it is absolutely necessary, the influence of ultrasonic cleaning on the LEDs depends on factors such ultrasonic power and the assembled condition. Ultrasonic cleaning shall be pre-qualified to ensure this will not cause damage to the LED.
- **10.** Other:
- a. Above specification may be changed without notice. TOYO will reserve authority on material change for above specification.
- b. When using this product, please abserve the absolute maximum ratings and the instructions for using outlined in these specification sheets. TOYO assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.

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REVISION HISTORY

DATE	REVISION CONTENTS	VERSION
2019-04-27	Initial release	А