TOYO LED ELECTRONICS LIMITED



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

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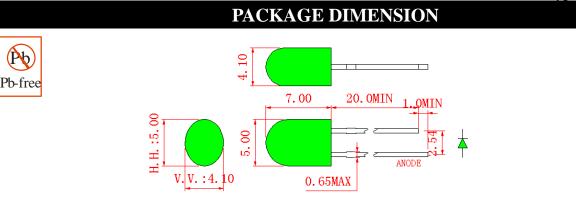
E-mail : sales@toyo-led.com



5*4 mm Round Type LEDs Series

P/N: TY-571PG1D100-2500(20)

Http://www.toyo-led.com



Selection Guide

Don't No	Dice		Lang Color	Iv(mcd)(IF=20mA)			Viewing Angle
Part No.	Raw Material	Emitted Color	Lens Color	MIN	TYP	MAX	(201/2)
TY-571PG1D100-2500(20)	InGaN	Pure Green	Green Diffused	1000	2500		H.H.: 100 °
				1000	2500		V.V.: 50 °

Absolute Maximum Ratings(Ta=25C)

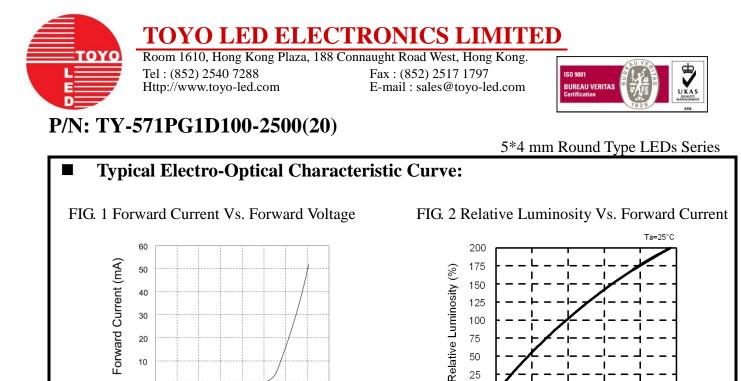
Item	Symbol	Maximum	Unit	
Power Dissipation	Pd	105	mW	
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	IFP	135	mA	
Forward Current	IFmax	25	mA	
Reverse Voltage	Vr	5	V	
Operating / Storage Temperature Range	Topr / Tstg	-40 °C to +85 °C		

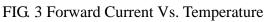
Electrical / Optical Characteristics(Ta=25C %

Item	Symbol	Min.	Тур.	Max.	Unit	Condition
Peak Wavelength	λp	-	530	-	nm	IF=20mA
Dominant Wavelength	λd	515	520	525	nm	IF=20mA
Forward Voltage	VF	2.80	3.20	3.60	V	IF=20mA
Capacitance	С	-	-	45	pF	VF=0V;f=1MHz
Reverse Current	Ir	_	-	10	uA	V _R =5V

NOTES:

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





1.0 1.5

2.0 2.5

Forward Voltage (v)

3.0 3.5 4.0

30

20

10

0

0 0.5

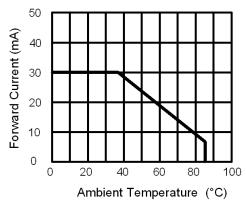


FIG. 5 Relative Intensity Vs. Wavelength

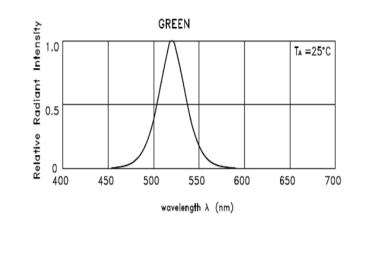


FIG. 4 Relative Luminosity Vs. Temperature

20

Forward Current (mA)

30

40

50

10

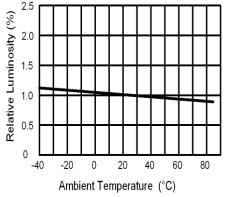
100

75 50

25

0

0





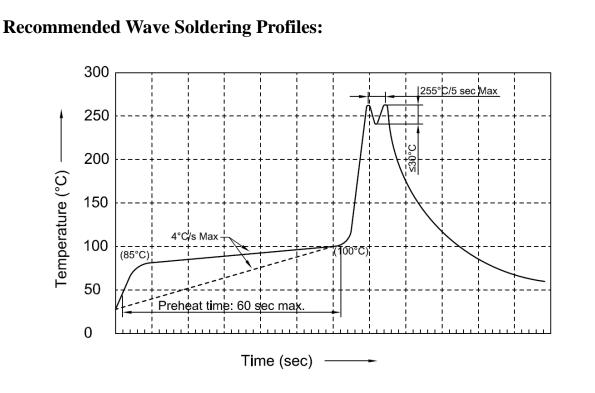
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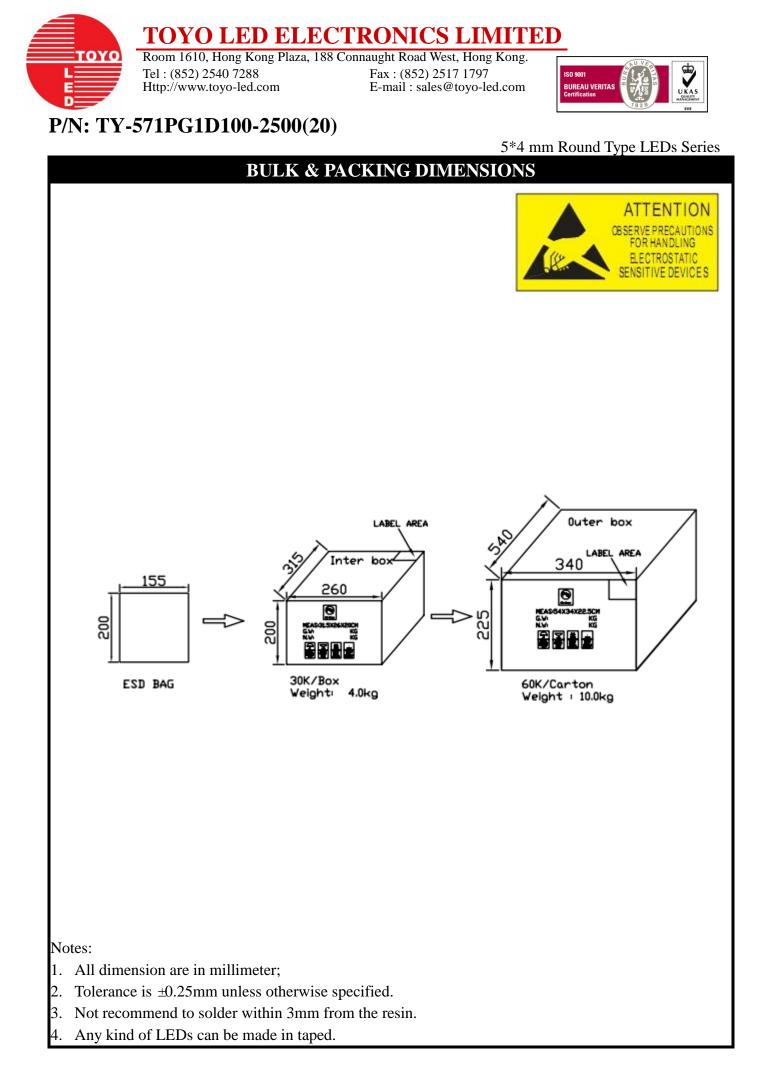
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Notes:

- 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 incur stress on the component when mounting and soldering process.
- 5. More than one wave soldering is not allowed..



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OTHER NOTES

1.Storage conditions:

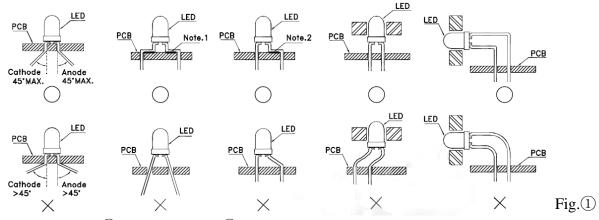
a. Avoid continued exposure to the condensing moisture environment and keep the product away from rapid transitions in ambient temperature.

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

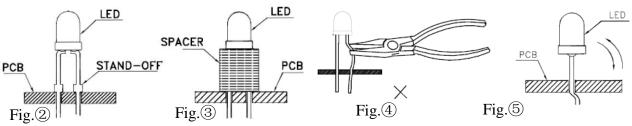
c. Product in the original sealed package is recommended to be assembled within 72 hours of

opening. Product in opened package for more than a week should be baked for 30 (+10/-0) hours at 85-100°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))



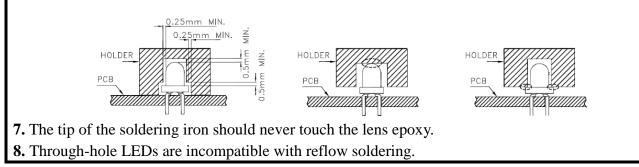
3. Use stand-offs (fig.2) or spacers (fig.3) to securely position the LED above the PCB.



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.



Sample Number:



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REVISION HISTORY					
DATE	REVISION CONTENTS	VERSION			
2015-05-15	New	А			