#### TOYO LED ELECTRONIC 'S LT ΈD



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5\*4 mm Round Type LEDs Series

## P/N: TY-571UV4M100-1000(20)

PACKAGE DIMENSION											
Pb-free Pb-free											
Selection Guide Dice					Iv(mcd)(I <sub>F</sub> =20mA)						
Part No.	Raw Material		Color	Lens Colo			IN TY	· · ·	Viewing Angle $(2\theta^{1/2})$		
TN 771111410 1000 (20)		Ultra Voilet					00 100	)	H.H.:	100 °	
TY-571UV4M100-1000(20)	InGaN			Milky		5	00 100	1000		V.V.: 50 °	
Absolute Maximum Ratings(Ta=25C %											
Item			Symbol		l	Maximum			Unit		
Power Dissipation				Pd			93			mW	
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)				Ifp			100			mA	
Forward Current					IFmax		30			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	•	Typ.	Max	. Ur	it	Con	dition	
Peak Wavelength		λp	-		410	-	nı	n	IF=2	20mA	
Dominant Wavelength		λd 395			2		415 nm		IF=20mA		
Forward Voltage		$V_{\mathrm{F}}$	-		3.2	3.6	V	T	IF=2	20mA	
Capacitance		С	-		-	100	p]	F 1	VF=0V;f=1MH		

NOTES:

**Reverse Current** 

All dimensions are in millimeter; 1.

Tolerance is  $\pm 0.25$ mm unless other specified; Luminous intensity testing tolerance is  $\pm 10\%$ ; 2.

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- 3. Dominant Emission Wavelength testing tolerance is  $\pm 5\%$ ;
- Specifications are subject to change without notice

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 $V_R=5V$ 



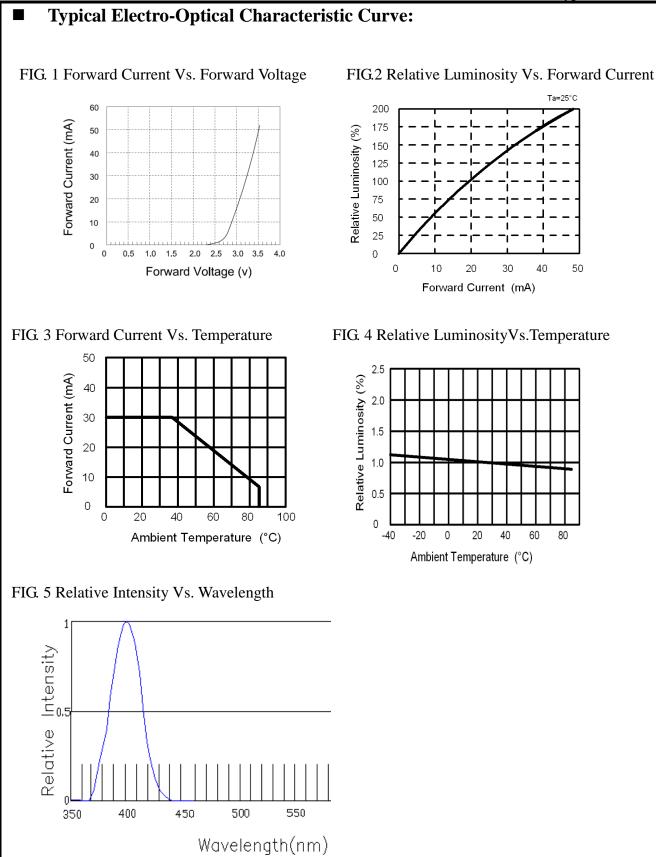


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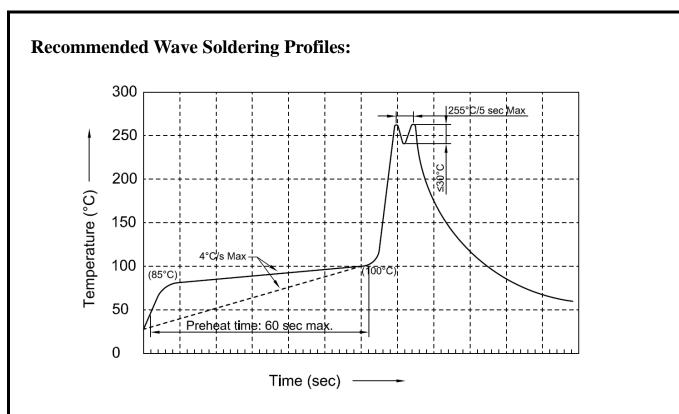
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#### P/N: TY-571UV4M100-1000(20)

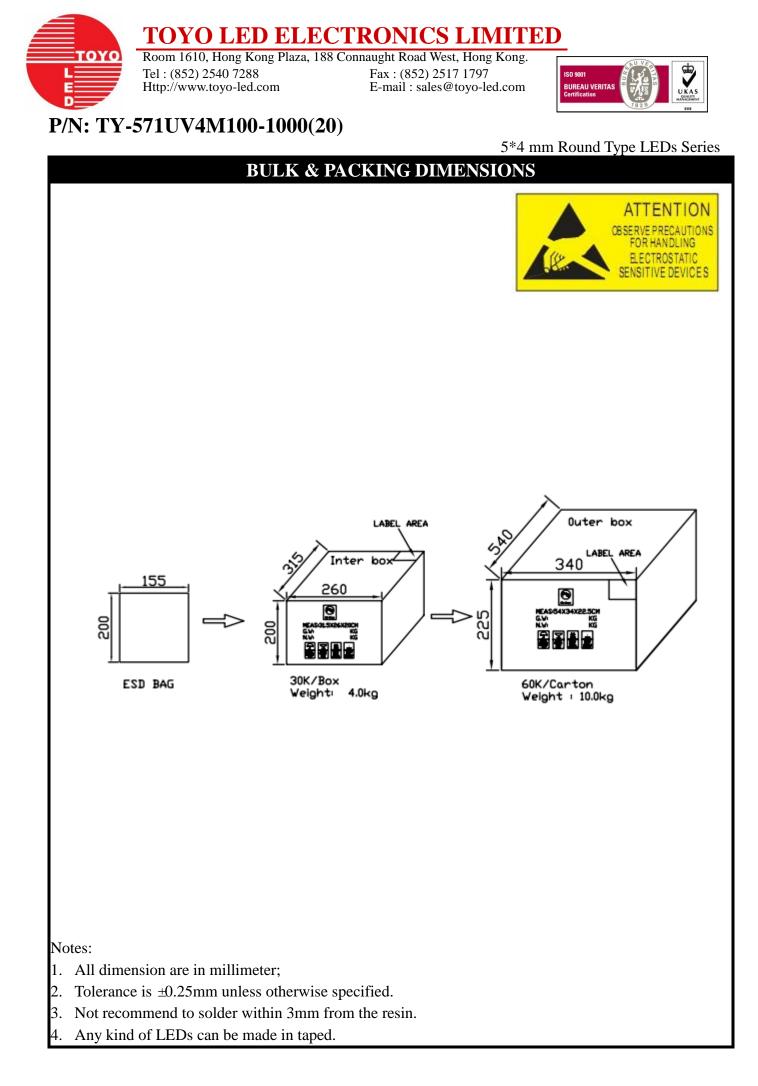
5\*4 mm Round Type LEDs Series

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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  $245-255^{\circ}$ °C for 3 sec (5 sec max).
- 3. Do not apply stress to the epoxy resin while the temperature is above  $85^{\circ}$ 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:

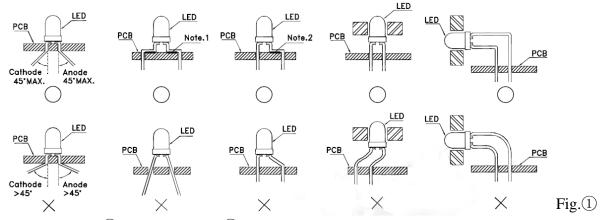
a. Avoid continued exposure to the condensing moisture environment and keep the product away from rapid transitions in ambient temperature.

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

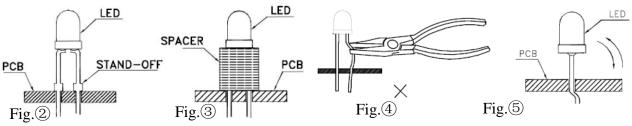
c. Product in the original sealed package is recommended to be assembled within 72 hours of

opening. Product in opened package for more than a week should be baked for 30 (+10/-0) hours at  $85-100^{\circ}$ 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))



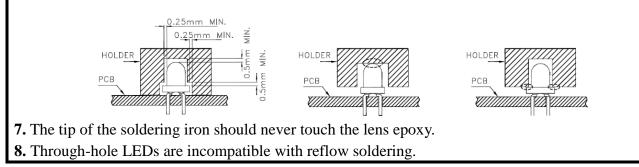
**3.** Use stand-offs (fig.<sup>(2)</sup>) or spacers (fig.<sup>(3)</sup>) to securely position the LED above the PCB.



**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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<b>REVISION HISTORY</b>								
DATE	REVISION CONTENTS	VERSION						
2015-05-15	New	А						