

# TOYO LED ELECTRONICS LIMITED

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

Tel: (852) 2540 7288

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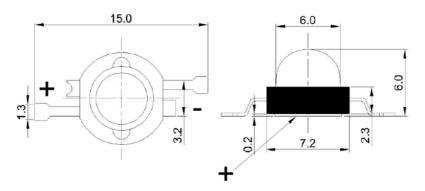


## P/N: TY-HP1BL

High Power Series

## PACKAGE DIMENSION

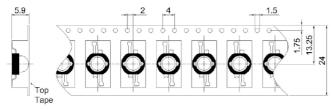
## Package Dimensions of Device

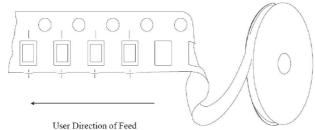






♦ Tape Specification: 100pcs per reel





#### NOTES:

- 1. All dimensions are in millimeters;
- 2. Tolerance is  $\pm 0.20$ mm especially other specified.

#### ♦ Features

- 1. Long operating life
- 2. Highest flux
- 3. Avaiable in Blue
- 4. Lambertian radiation pattern
- More energy efficient than incandescent and most halogen lamps
- 6. Low voltage DC operated
- 7. Cool beam, safe to touch
- 8. Instant light (less than 100ns)
- 9. Fully dimmable
- 10. No UV
- 11. Superior ESD protection
- 12. Eutectic die bonding
- 13. RoHS compliant

### **♦** Applications

- 1. Reading lights (cars, buses & aircraft)
- 2. LCD Backlights/light Guides
- 3. Fiber optic alternative / Decorative / Entertainment
- 4. Mini-accent / Up lighters / Down lighters / Orientation
- Indoor / Outdoor commercial and Residental Architectural
- 6. Cove / Under shelf / Task
- 7. Bollards / Seccurity / Garden
- 8. Portable (flashlight, bicycle)
- 9. Edge-lit signs (Exit, point of sale)
- Automotive Exit (Stop-Tail-Turn, CHMSL, Mirror Side Repeat)
- 11. Traffic signaling / Beacons / Rail Crossing and Wayside



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

Item	Symbol	Maximum	Unit	
Forward Current	IF	350	mA	
Peak Forward Current*	IFP	500	mA	
Reverse Voltage	VR	5	V	
Power Dissipation	PD	1000	mW	
Electrostatic Discharge	ESD	±500	V	
Operating Temperature Range	Topr	<b>-</b> 40 ∼ +80	°C	
Storage Temperature Range	Tstg	-40 ~ +100	°C	
Lead Soldering Temperature**	Tsol	Max. 260°C for 3sec Max.		

<sup>\*</sup>IFP Conditions: Pulse Width \le 10msec duty \le 1/10

### **♦** Electrical / Optical Characteristics(Ta=25C°)

Item	Symbol	Min.	Тур.	Max.	Unit	Condition
Forward Voltage	VF	3.0	3.4	3.8	V	I <sub>F</sub> =350mA
Reverse Current	Ir			50	uA	VR=5V
50% Power Angle	201/2	110		140	deg	I <sub>F</sub> =350mA
Luminous Intensity	Фу	8.0		10	lm	I <sub>F</sub> =350mA
Recommend Forward Current	IF		350		mA	
Wavelength	λd	460		470	nm	I <sub>F</sub> =350mA
Thermal Resistance, Junction to Case	Rлр		10		°C/w	I <sub>F</sub> =350mA

#### Notes:

- 1. Torlerance of measurement of fowward voltage  $\pm 0.1$ V.
- 2. Torlerance of measurement of peak wavelength ±2.0nm.
- 3. Torlerance of measurement of luminous intensity  $\pm 15\%$ .

<sup>\*\*</sup>All high power emitter LED products mounted on aluminum metal-core PCB, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat disspation equipment.

<sup>\*\*</sup>Re-flow, wave peak and soak-stannum soldering etc. is not suitable for this products.

<sup>\*\*</sup>Suggest to solder it by professional high power LED soldering machine.

<sup>\*\*</sup>Can use invariable-temperature searing-iron with soldering condition: ≤260°C less than 3 seconds.



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