

TOYO LED ELECTRONICS LIMITED

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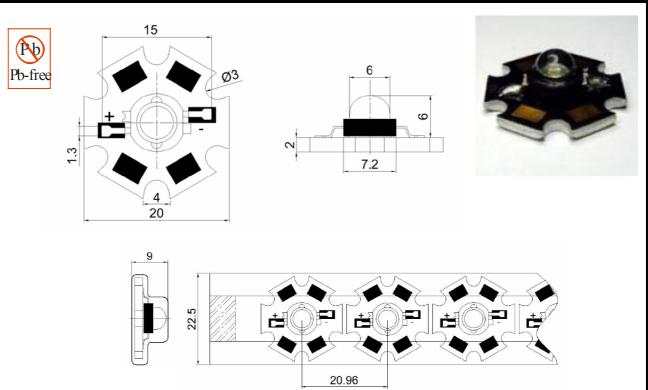


High Power Series

P/N: TY-HP1BL-S

http://www.toyo-led.com

PACKAGE DIMENSION



♦ Features

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

NOTES:

- 1. All dimensions are in millimeters;
- 2. Tolerance is ± 0.20 mm especially other specified;
- 3. 20pcs / Tube.

♦ 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
- 5. 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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High Power Series

♦ 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	-40 ~ +80	°C					
Storage Temperature Range	Tstg	-40 ~ +100	°C					
Lead Soldering Temperature**	Tsol	Max. 260°C for 3sec Max.						

*IFP Conditions: Pulse Width≤10msec duty≤1/10

**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.

**Re-flow, wave peak and soak-stannum soldering etc. is not suitable for this products.

**Suggest to solder it by professional high power LED soldering machine.

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

Electrical / Optical Characteristics(Ta=25C°)

Item	Symbol	Min.	Тур.	Max.	Unit	Condition
Forward Voltage	VF	3.0	3.4	3.8	V	IF=350mA
Reverse Current	Ir			50	uA	VR=5V
50% Power Angle	201/2	110		140	deg	IF=350mA
Luminous Intensity	$\Phi_{\rm V}$	8.0		10	lm	IF=350mA
Recommend Forward Current	IF		350		mA	
Chromaticity	Te	460		470	nm	IF=350mA
Thermal Resistance, Junction to Case	Rjp		10		°C/w	IF=350mA

Notes:

1. Torlerance of measurement of fowward voltage ± 0.1 V.

2. Torlerance of measurement of peak wavelength ± 2.0 nm.

3. Torlerance of measurement of luminous intensity $\pm 15\%$.



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