

# TOYO LED ELECTRONICS LIMITED

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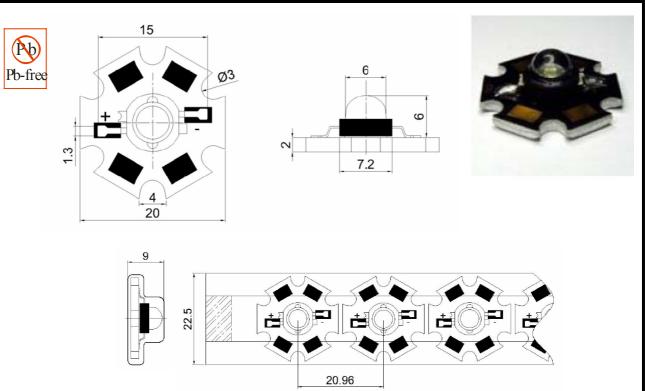


High Power Series

### P/N: TY-HP5PG-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  $\pm 0.20$ 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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ISO 9001 BUREAU VERITAS Certification N° 181611

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♦ Absolute Maximum Ratings(Ta=25C°)									
	Item	Symbol	Unit						
	Forward Current	IF	1.2	А					
	Peak Forward Current*	IFP	1.3	А					
	Reverse Voltage	VR	5	V					
	Power Dissipation	PD	5	W					
	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°)

	<u>s(======)</u>					
Item	Symbol	Min.	Тур.	Max.	Unit	Condition
Forward Voltage	VF	3.0	3.4	3.8	V	IF=1.2A
Reverse Current	Ir			50	uA	VR=5V
50% Power Angle	201/2	110		140	deg	IF=1.2A
Luminous Intensity	$\Phi_{\rm V}$	170		250	lm	IF=1.2A
Recommend Forward Current	IF		1.2		А	
Chromaticity	Тс	520		530	nm	IF=1.2A
Thermal Resistance, Junction to Case	Rjp		10		°C/w	IF=1.2A

Notes:

1. Torlerance of measurement of fowward voltage  $\pm 0.1$  V.

2. Torlerance of measurement of peak wavelength  $\pm 2.0$  nm.

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



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