

TOYO LED ELECTRONICS LIMITED

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

Tel: (852) 2540 7288

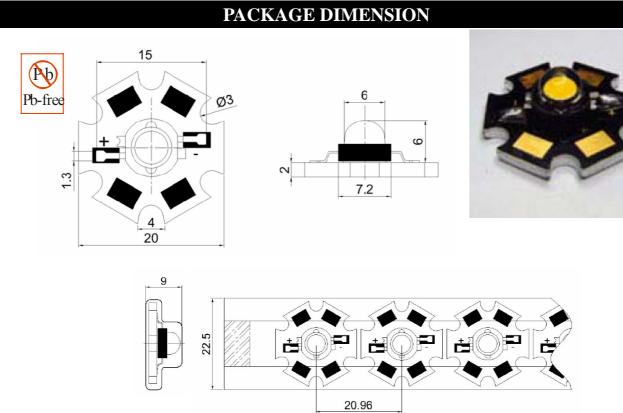
http://www.toyo-led.com

Fax: (852) 2517 1797
email: sales@toyo-led.com



P/N: TY-HP5PW-S

High Power Series



♦ Features

- 1. Long operating life (up to 100k hours)
- 2. Highest flux per family in the world
- 3. Wide range of colors: 2500K~25000K
- 4. Lambetian radiation pattern
- More energy efficient than incandescent and most halogen lamps
- 6. Low voltage DC operated
- 7. Cool beam, safe to touch
- 8. Fully dimmable
- 9. No UV
- 10. Superior ESD protection
- 11. Lower Rth
- 12. Instant light (less than 100ns)
- 13. 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. Portable (flashlight, bicycle)
- 3. Orientation
- 4. Mini-accent
- 5. Decorative
- 6. Fiber optic alternative
- 7. Appliance
- 8. Sign and channel letter
- 9. Architectural detail
- 10. Cove lighting
- 11. Edge-lit signs (Exit, point of sale)
- 12. Automotive Exit (Stop-Tail-Turn, CHMSL, Mirror Side Repeat)



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♦ Absolute Maximum Ratings(Ta=25C°)

Item	Symbol	ymbol Maximum		
Forward Current	IF	1.2	A	
Peak Forward Current*	IFP	1.3	A	
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 \le 10msec duty \le 1/10

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

Item	Symbol	Min.	Тур.	Max.	Unit	Condition
Forward Voltage	VF	3.2	3.6	4.0	V	I _F =1.2A
Reverse Current	Ir			50	uA	VR=5V
50% Power Angle	201/2	110		140	deg	I _F =1.2A
Luminous Intensity	Фу	150		210	lm	I _F =1.2A
Recommend Forward Current	IF		1.2		A	
Chromaticity	Тс	5000		10000	K	I _F =1.2A
Thermal Resistance, Junction to Case	RJP		18		°C/w	I _F =1.2A

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 $\pm 15\%$.

^{**}Our MCPCB is usual use for installation and connection during application, but the ability of heat dissipation is not enough. If lighted, our high power stars will need better another type heat dissipation equipment. So we recommend the working time is not over 5~10 seconds without any heat dissipation 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.



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