

**FOYO LED ELECTRONICS LIMITED** 

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

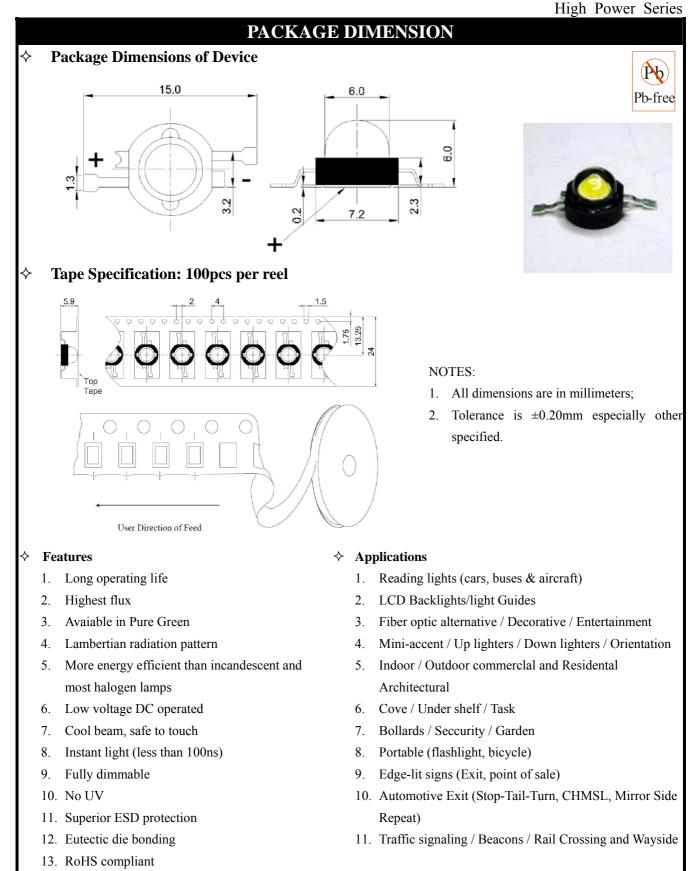
Fax: (852) 2517 1797 email: sales@toyo-led.com



## P/N: TY-HP1PG

Tel: (852) 2540 7288

http://www.toyo-led.com





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## P/N: TY-HP1PG

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	$\mathbf{V}_{\mathrm{F}}$	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	$\Phi_{\rm V}$	50		60	lm	IF=350mA
Recommend Forward Current	IF		350		mA	
Wavelength	λd	520		530	nm	IF=350mA
Thermal Resistance, Junction to Case	Rjp		10		°C/w	IF=350mA

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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ISO 9001 BUREAU VERITAS Certification N°181611

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