

**FOYO LED ELECTRONICS LIMITED** 

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

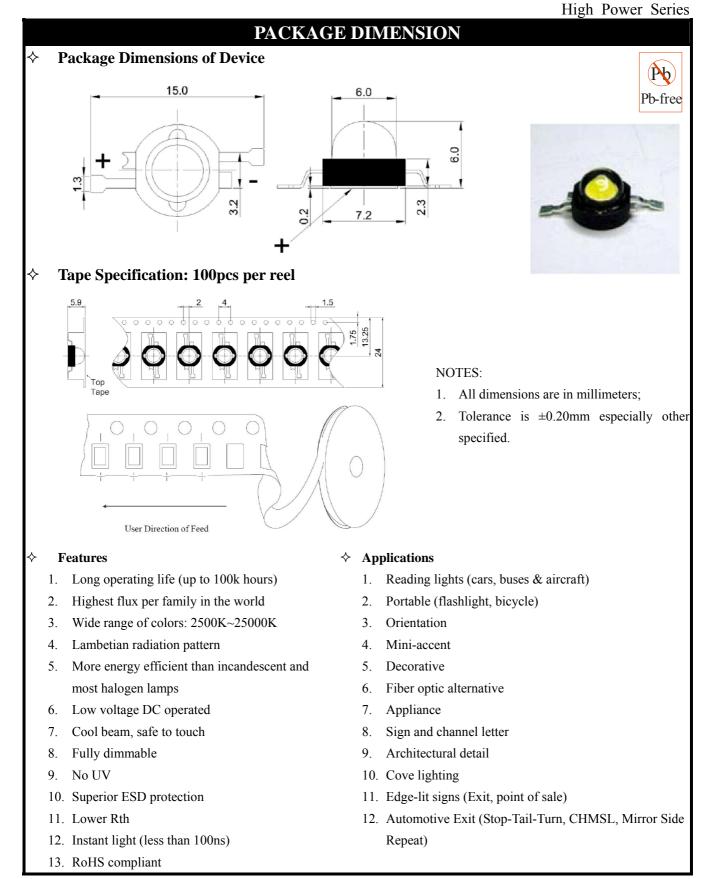
Fax: (852) 2517 1797 email: sales@toyo-led.com



## P/N: TY-HP5WW

Tel: (852) 2540 7288

http://www.toyo-led.com





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High Power Series

| ♦ Absolute Maximum Ratings(Ta=25C°) |        |                          |      |  |  |  |  |
|-------------------------------------|--------|--------------------------|------|--|--|--|--|
| Item                                | Symbol | Maximum                  | 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. |      |  |  |  |  |
|                                     | 1/10   |                          |      |  |  |  |  |

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

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\*\*Our MCPCB is usual use for installation and connection during application, but the ability of heat disspation 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.

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

| Interneur, optical characteristics(10 200) |                           |      |      |      |      |           |  |
|--|---------------------------|------|------|------|------|-----------|--|
| Item                                       | Symbol                    | Min. | Тур. | Max. | Unit | Condition |  |
| Forward Voltage                            | $\mathbf{V}_{\mathrm{F}}$ | 3.2  | 3.6  | 4.0  | V    | IF=1.2A   |  |
| Reverse Current                            | Ir                        |      |      | 50   | uA   | VR=5V     |  |
| 50% Power Angle                            | 201/2                     | 110  |      | 140  | deg  | IF=1.2A   |  |
| Luminous Intensity                         | $\Phi_{\rm V}$            | 145  |      | 170  | lm   | IF=1.2A   |  |
| Recommend Forward Current                  | IF                        |      | 1.2  |      | А    |           |  |
| Chromaticity                               | Te                        | 2500 |      | 5000 | K    | IF=1.2A   |  |
| Thermal Resistance, Junction to Case       | Rjp                       |      | 18   |      | °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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