

## LED – Light Emitting Diode

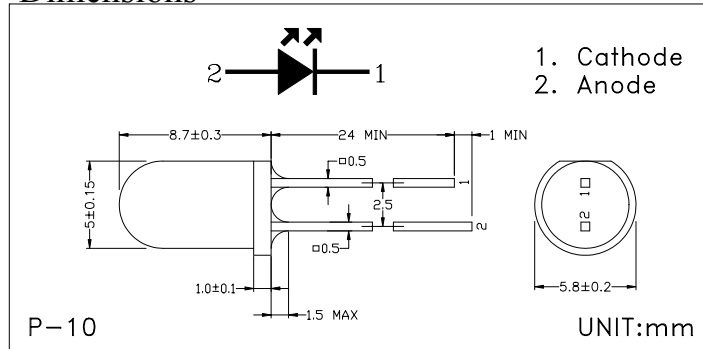
1-05-04-12

Module No.: W05310PGSC-W1

### Features:

Ø5mm  
 PURE GREEN  
 Water Clear  
 Super Bright

### Dimensions



### Absolute Maximum Ratings

(Ta=25°C)

| Descriptions               | Symbol           | Value     | Unit |
|----------------------------|------------------|-----------|------|
| Continuous Forward Current | I <sub>F</sub>   | 30        | mA   |
| Peak Forward Current *1    | I <sub>FM</sub>  | 35        | mA   |
| Reverse Voltage            | V <sub>R</sub>   | 5         | V    |
| Operating Temperature      | T <sub>opr</sub> | -25 ~ +65 | °C   |
| Storage Temperature        | T <sub>stg</sub> | -25 ~ +85 | °C   |
| Soldering Temperature *2   | T <sub>sol</sub> | 260       | °C   |

\*1 Duty ratio = 1/10, Pulse width = 0.1ms.

\*2 At the position of 2mm from the bottom face of resin package within 5 sec.

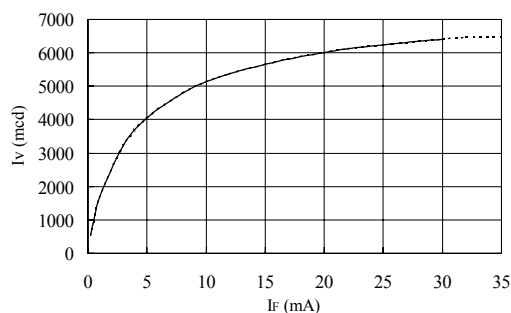
### Electro-optical Characteristics

(Ta=25°C)

| Descriptions                 | Symbol         | Conditions           | Min. | Typ. | Max. | Unit |
|------------------------------|----------------|----------------------|------|------|------|------|
| Forward Voltage              | V <sub>F</sub> | I <sub>F</sub> =20mA |      | 3.6  | 4.5  | V    |
| Luminous Intensity *3        | I <sub>v</sub> | I <sub>F</sub> =20mA | 3400 | 6000 |      | mcd  |
| Peak Emission Wavelength     | λ <sub>p</sub> | I <sub>F</sub> =20mA |      | 515  |      | nm   |
| Spectrum Radiation Bandwidth | Δλ             | I <sub>F</sub> =20mA |      | 35   |      | nm   |
| Half Power Beam Angle        | Δθ             |                      |      | ±10  |      | deg. |
| Terminal Capacitance         | C <sub>t</sub> |                      |      | 25   |      | pF   |
| Response Frequency           | f <sub>c</sub> |                      |      | 8    |      | MHz  |

\*3 Tolerance: ±30%

Luminous Intensity vs  
Forward Current



Radiation Diagram

