

WP1154PGT

PURE GREEN

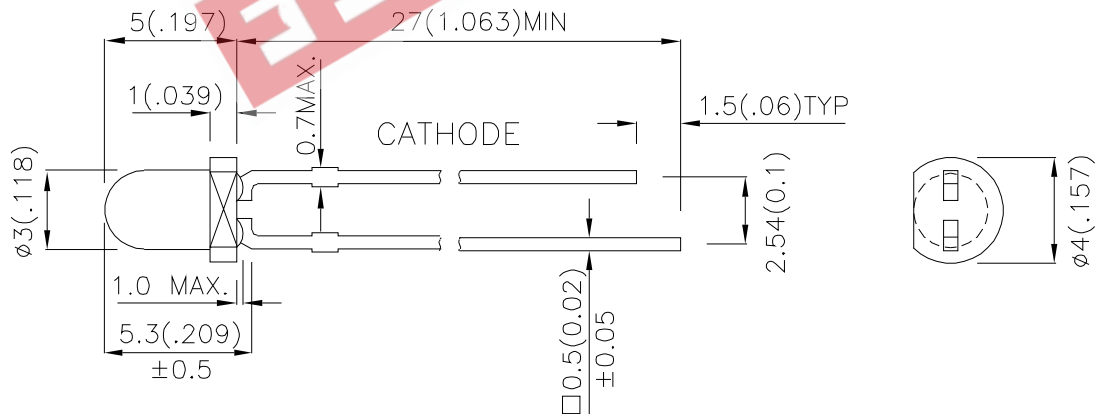
Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- RoHS COMPLIANT.

Description

The Pure Green source color devices are made with Gallium Phosphide Pure Green Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ " unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) @ 10mA | | Viewing Angle |
|-----------|------------------|-------------------|--------------------|------|------------------|
| | | | Min. | Typ. | 2 θ 1/2 |
| WP1154PGT | PURE GREEN (GaP) | GREEN TRANSPARENT | 3 | 10 | 50° |

Note:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

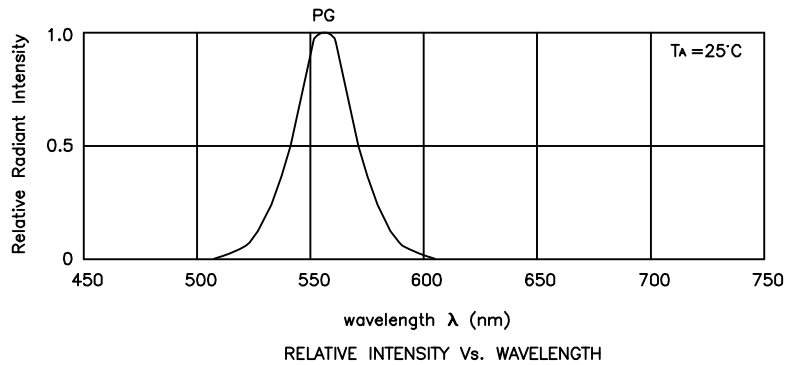
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-----------------------|--------------------------|------------|------|------|-------|-----------------|
| λ_{peak} | Peak Wavelength | Pure Green | 555 | | nm | IF=20mA |
| λ_D | Dominant Wavelength | Pure Green | 555 | | nm | IF=20mA |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Pure Green | 30 | | nm | IF=20mA |
| C | Capacitance | Pure Green | 45 | | pF | VF=0V;f=1MHz |
| VF | Forward Voltage | Pure Green | 2.25 | 2.5 | V | IF=20mA |
| IR | Reverse Current | Pure Green | | 10 | uA | VR = 5V |

Absolute Maximum Ratings at TA=25°C

| Parameter | Pure Green | Units |
|-------------------------------|---------------------|-------|
| Power dissipation | 105 | mW |
| DC Forward Current | 25 | mA |
| Peak Forward Current [1] | 135 | mA |
| Reverse Voltage | 5 | V |
| Operating/Storage Temperature | -40°C To +85°C | |
| Lead Solder Temperature [2] | 260°C For 3 Seconds | |
| Lead Solder Temperature [3] | 260°C For 5 Seconds | |

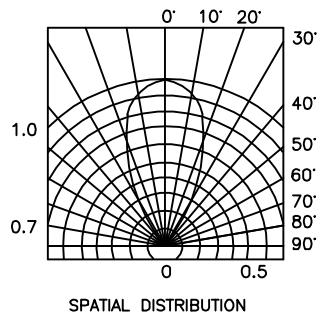
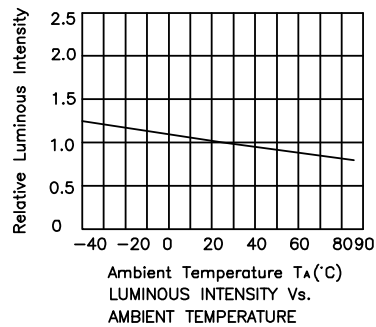
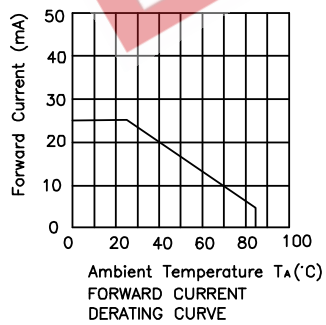
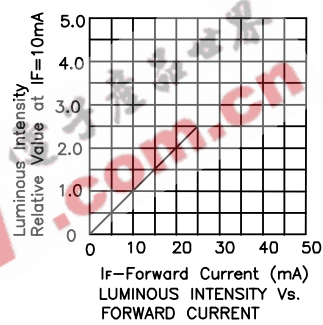
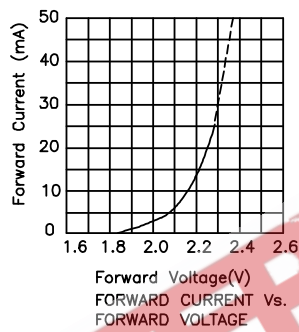
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.



Pure Green

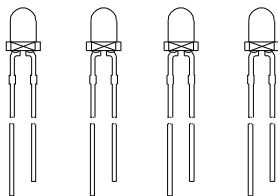
WP1154PGT



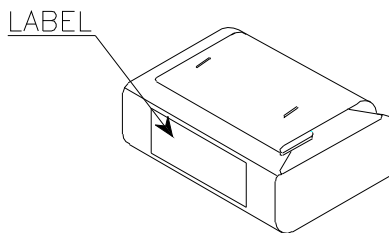
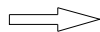
Kingbright

PACKING & LABEL SPECIFICATIONS

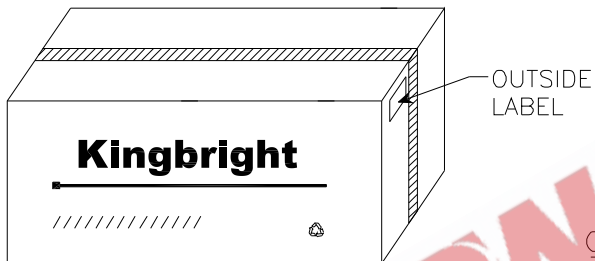
WP1154PGT



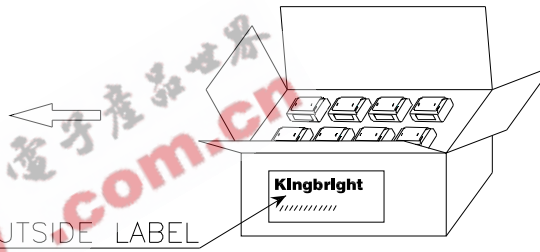
P/N: WP1154PGT




1,000PCS / BAG



56K / 9# BOX



28K / 5# BOX

| | | | | |
|--|--|----|------------|--------|
| Kingbright | | | | |
| Q.C. | <table border="1"> <tr> <td>QC</td> </tr> <tr> <td>xx.xx.2005</td> </tr> <tr> <td>PASSED</td> </tr> </table> | QC | xx.xx.2005 | PASSED |
| QC | | | | |
| xx.xx.2005 | | | | |
| PASSED | | | | |
| TYPE NO : WP1154PGT | | | | |
| QUANTITY : 1,000 pcs | | | | |
| S/N : XXXX | CODE: XXX | | | |
| LOT NO  | | | | |
| RoHS Compliant | | | | |

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.