

Kingbright

T-1 (3mm) SOLID STATE LAMP

WP1154PGD

PURE GREEN

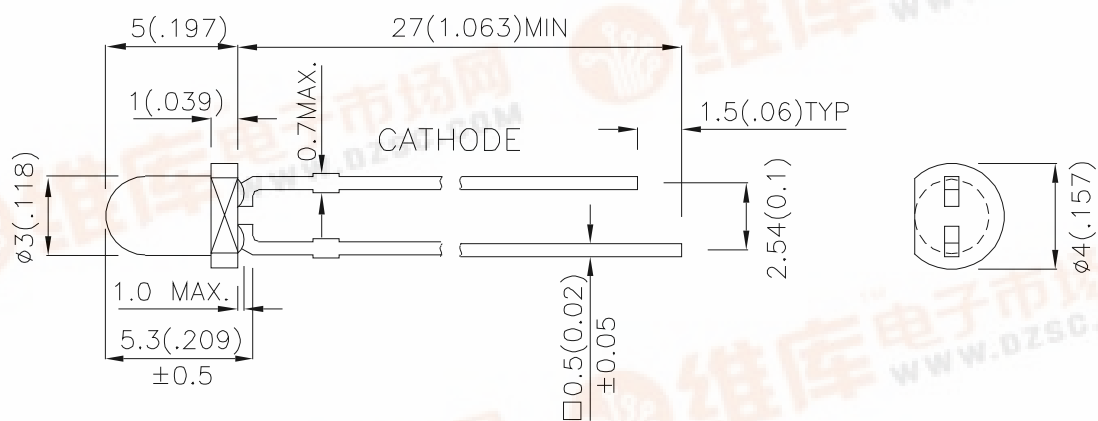
Features

- 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
WP1154PGD	PURE GREEN (GaP)	GREEN DIFFUSED	1.8	5	60°

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

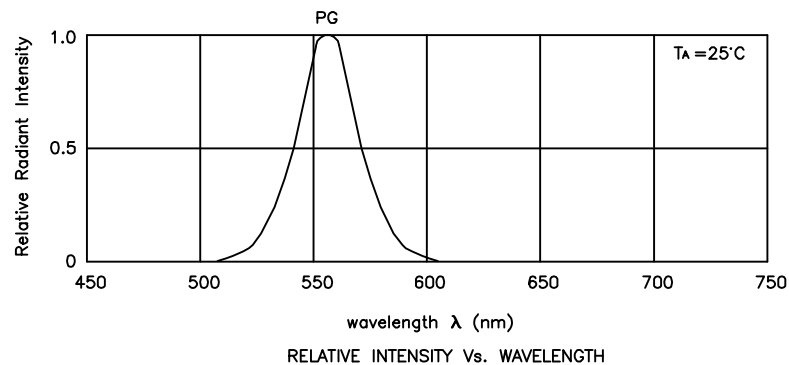
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Pure Green	555		nm	IF=20mA
λ_D	Dominant Wavelength	Pure Green	555		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Pure Green	30		nm	IF=20mA
C	Capacitance	Pure Green	45		pF	VF=0V;f=1MHz
VF	Forward Voltage	Pure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

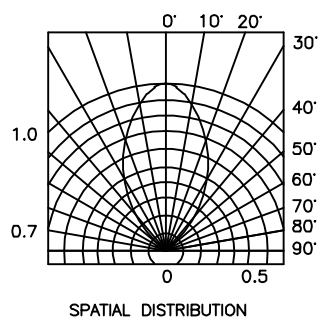
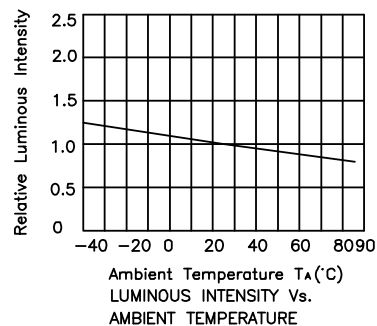
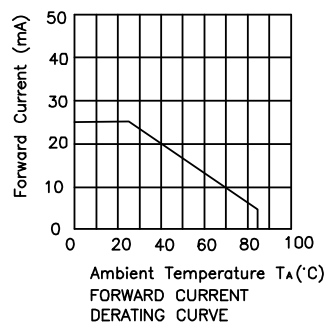
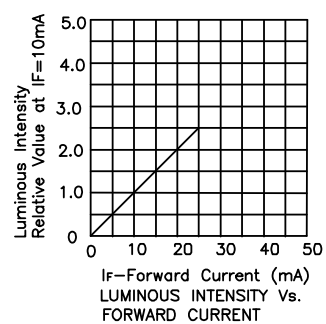
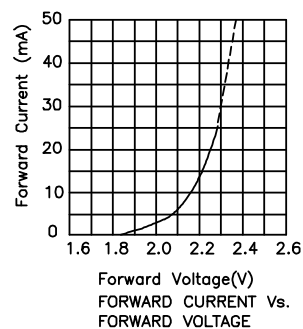
Notes:

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



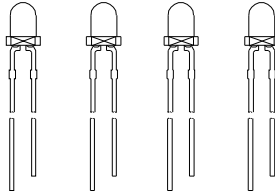
Pure Green

WP1154PGD



PACKING & LABEL SPECIFICATIONS

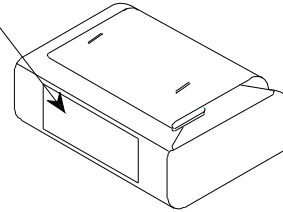
WP1154PGD



P/N: WP1154PGD



LABEL



1,000PCS / BAG

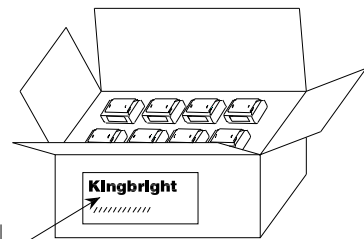


56K / 9# BOX

OUTSIDE LABEL



OUTSIDE LABEL



28K / 5# BOX

Kingbright	
Q.C.	QC xx-xx-2005 PASSED
TYPE NO : WP1154PGD	
QUANTITY : 1,000 pcs	
S/N : XXXX	CODE: XXX
LOT NO  xxxxxxxxxxxx	
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.