

WP7113ND

PURE ORANGE

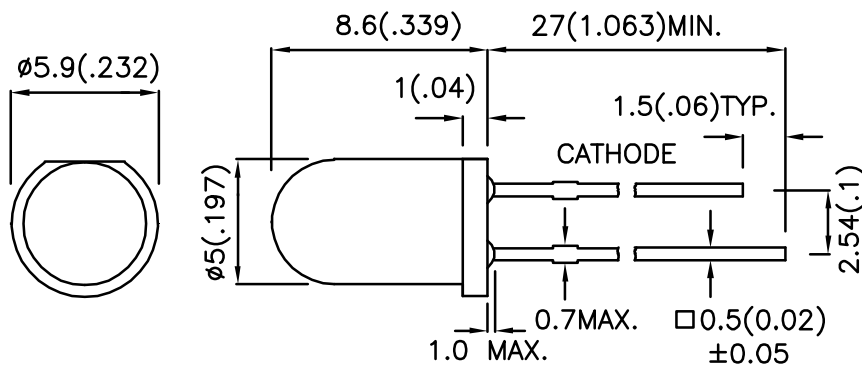
Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- RoHS COMPLIANT.

Description

The Pure Orange source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Pure Orange 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 lead 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
WP7113ND	PURE ORANGE (GaAsP/GaP)	ORANGE DIFFUSED	12	30	30°

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 T_A=25°C

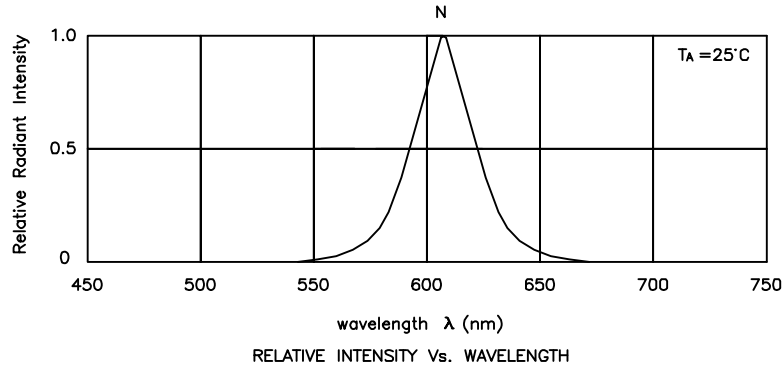
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Pure Orange	607		nm	I _F =20mA
λ_D	Dominant Wavelength	Pure Orange	610		nm	I _F =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Pure Orange	35		nm	I _F =20mA
C	Capacitance	Pure Orange	15		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	Pure Orange	2.05	2.5	V	I _F =20mA
I _R	Reverse Current	Pure Orange		10	uA	V _R = 5V

Absolute Maximum Ratings at T_A=25°C

Parameter	Pure Orange	Units
Power dissipation	105	mW
DC Forward Current	25	mA
Peak Forward Current [1]	145	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	

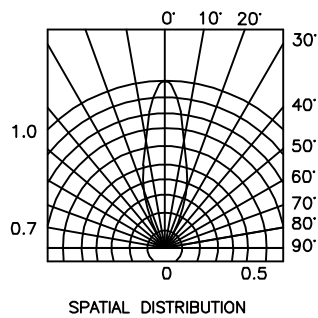
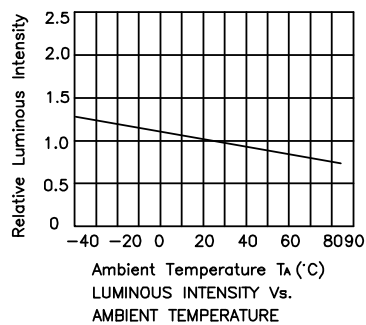
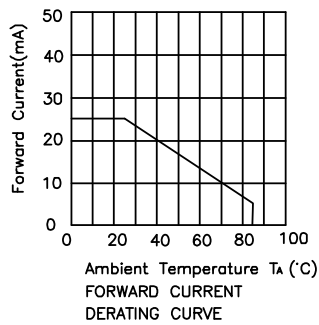
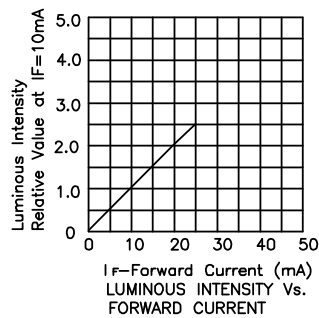
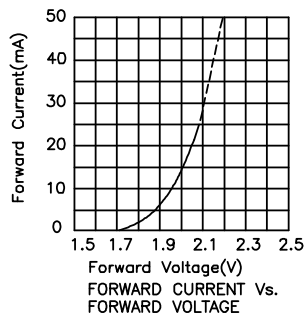
Notes:

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



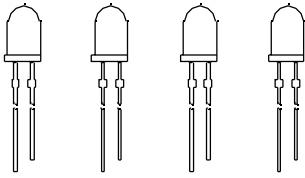
Pure Orange

WP7113ND

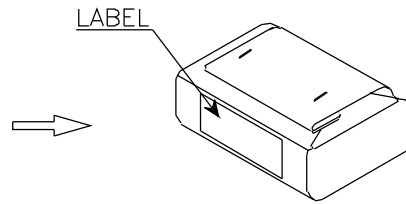


PACKING & LABEL SPECIFICATIONS

WP7113ND



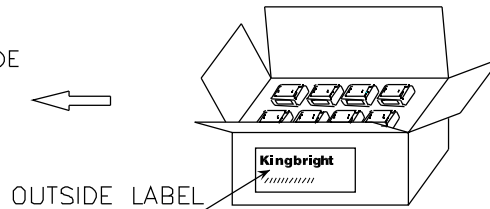
P/N: WP7113ND



1,000PCS / BAG



36K / 9# BOX



18K / 5# BOX

<h2 style="margin: 0;">Kingbright</h2>	
Q.C.	<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> QC xxx-xx.2004 PASSED </div>
TYPE NO : WP7113ND	
QUANTITY : 1,000 pcs	
S/N : XXX	CODE: XX
LOT NO	
xxxxxxxxx	
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.