

WP1773ND

PURE ORANGE

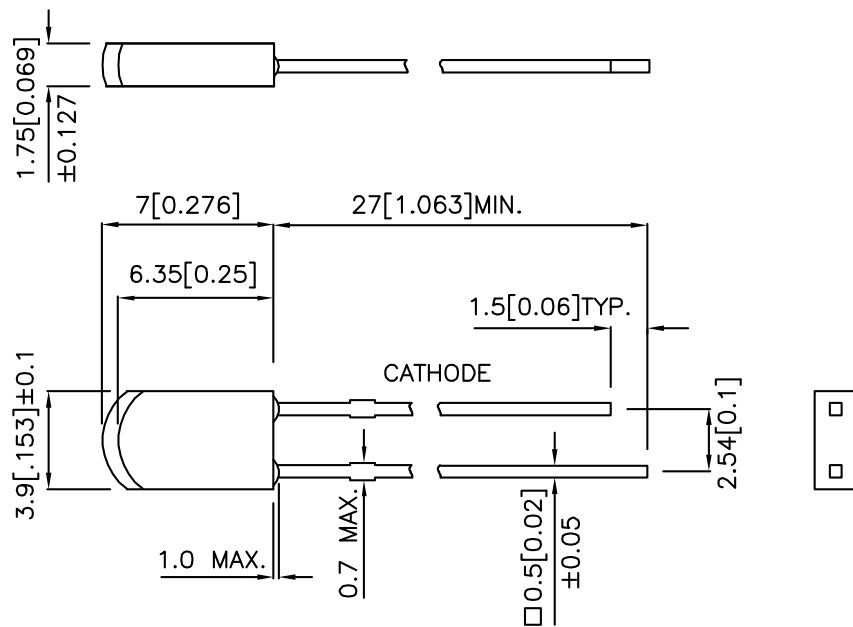
Features

- LOW POWER CONSUMPTION.
- I.C. COMPATIBLE.
- ROUNDED END RECTANGULAR SHAPE.
- LONG LIFE-SOLID STATE RELIABILITY.
- 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 ±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
WP1773ND	PURE ORANGE (GaAsP/GaP)	ORANGE DIFFUSED	5	8	100°

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

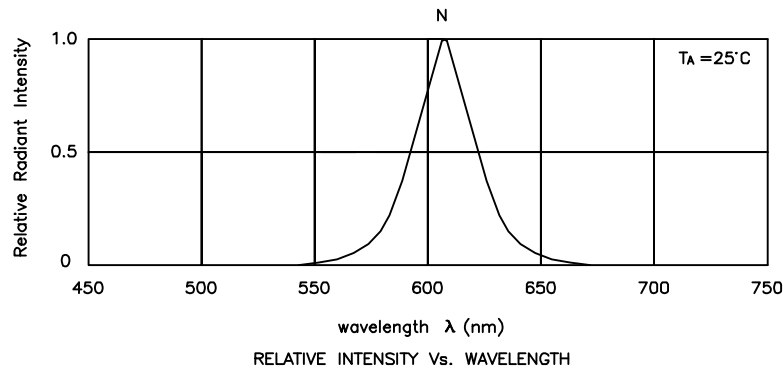
Parameter	Pure Orange	Units
Power dissipation	105	mW
DC Forward Current	25	mA
Peak Forward Current [1]	145	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3 Seconds	
Lead Solder Temperature [3]	260°C For 5 Seconds	

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

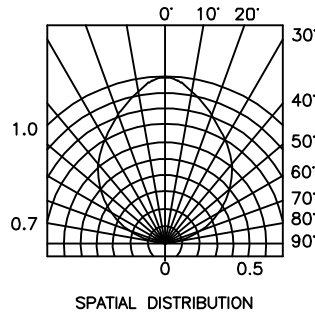
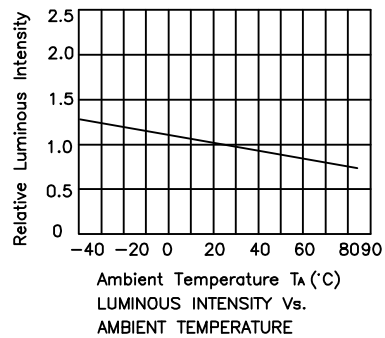
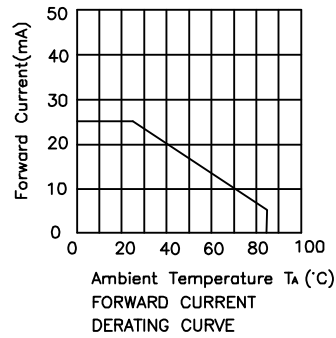
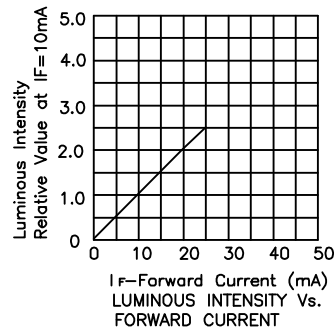
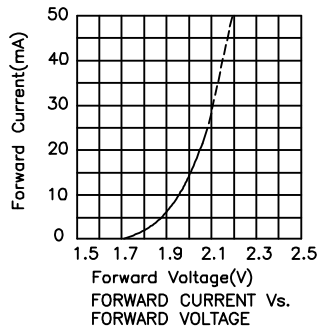
2. 2mm below package base.

3. 5mm below package base.



Pure Orange

WP1773ND



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.