Kingbright

1.8mm SOLID STATE LAMP

WP1060ED ORANGE

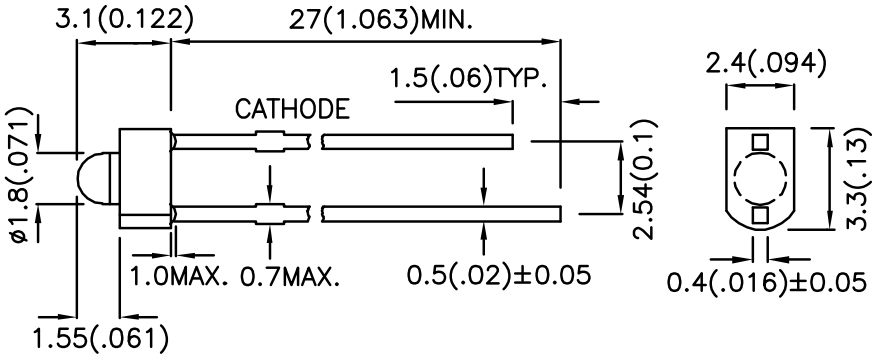
Features

- ●1.8mm DIAMETER SMALL SIZE LED LAMP.
- ●ULTRA BRIGHTNESS IS AVAILABLE.
- ●RELIABLE AND RUGGED.
- ●VERSATILE MOUNTING ON P.C. BOARD OR PANEL.
- ●AVAILABLE IN DIFFUSED LENS.
- ● RoHS COMPLIANT.

Description

The Orange source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide 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.

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Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 10mA		Viewing Angle
			Min.	Typ.	2θ1/2
WP1060ED	ORANGE (GaAsP/GaP)	ORANGE DIFFUSED	8	15	70°

Note:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

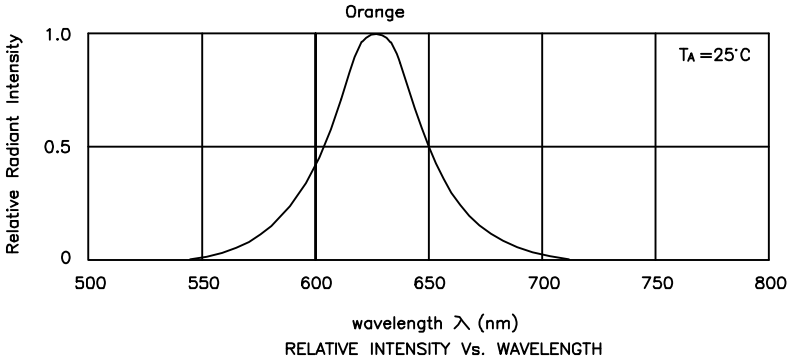
Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Orange	627		nm	I_F=20mA
λD	Dominant Wavelength	Orange	625		nm	I_F=20mA
Δλ1/2	Spectral Line Half-width	Orange	45		nm	I_F=20mA
C	Capacitance	Orange	15		pF	V_F=0V;f=1MHz
V_F	Forward Voltage	Orange	2.0	2.5	V	I_F=20mA
I_R	Reverse Current	Orange		10	uA	V_R = 5V

Absolute Maximum Ratings at T_A=25°C

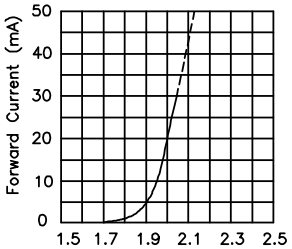
Parameter	Orange	Units
Power dissipation	105	mW
DC Forward Current	30	mA
Peak Forward Current [1]	160	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3 Seconds	
Lead Solder Temperature [3]	260°C For 5 Seconds	

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

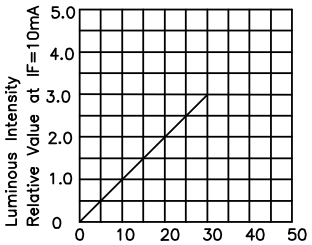


RELATIVE INTENSITY Vs. WAVELENGTH

Orange **WP1060ED**

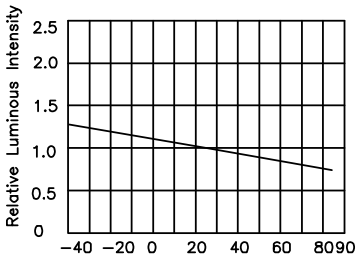


FORWARD CURRENT Vs. FORWARD VOLTAGE

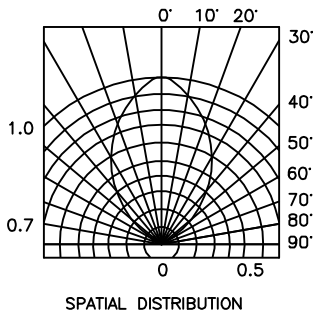


LUMINOUS INTENSITY Vs. FORWARD CURRENT

FORWARD CURRENT DERATING CURVE



LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



SPATIAL DISTRIBUTION

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.