

T-1 (3mm) CYLINDRICAL LED LAMP

WP424HDT

BRIGHT RED

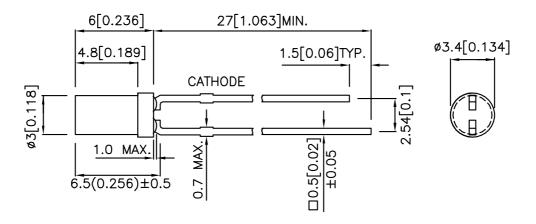
Features

- •CYLINDRICAL TYPE, TOP DIFFUSED.
- •LOW POWER CONSUMPTION.
- •I.C. COMPATIBLE.
- •RELIABLE AND RUGGED.
- •LONG LIFE SOLID STATE RELIABILITY.
- •AVAILABLE ON TAPE AND REEL.
- •Rohs Compliant.

Description

The Bright Red source color devices are made with Gallium Phosphide Red Light Emitting Diode.

Package Dimensions



Notes

- 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.

 SPEC NO: DSAF2534
 REV NO: V.1
 DATE:APR/18/2005
 PAGE: 1 OF 4

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 CHECKED: Allen Liu
 DRAWN:B.H.LI
 ERP: 1101010940

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 10 mA Min. Typ.		Viewing Angle
					201/2
WP424HDT	BRIGHT RED (GaP)	RED DIFFUSED	0.4	1	100°

Note:

Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Bright Red	700		nm	IF=20mA
λD	Dominant Wavelength	Bright Red	660		nm	I=20mA
Δλ1/2	Spectral Line Half-width	Bright Red	45		nm	IF=20mA
С	Capacitance	Bright Red	40		pF	VF=0V;f=1MHz
VF	Forward Voltage	Bright Red	2.25	2.5	V	IF=20mA
lR	Reverse Current	Bright Red		10	uA	VR = 5V

Absolute Maximum Ratings at Ta=25°C

Parameter	Bright Red	Units	
Power dissipation	120	mW	
DC Forward Current	25	mA	
Peak Forward Current [1]	130	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]	e [3] 260°C For 5 Seconds		

Notes:

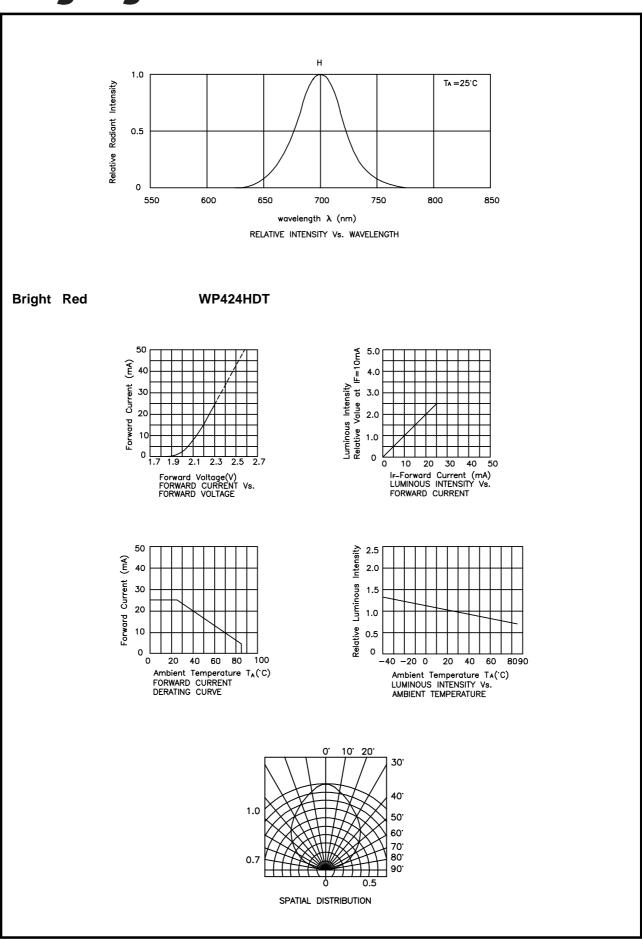
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

 SPEC NO: DSAF2534
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 PAGE: 2 OF 4

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

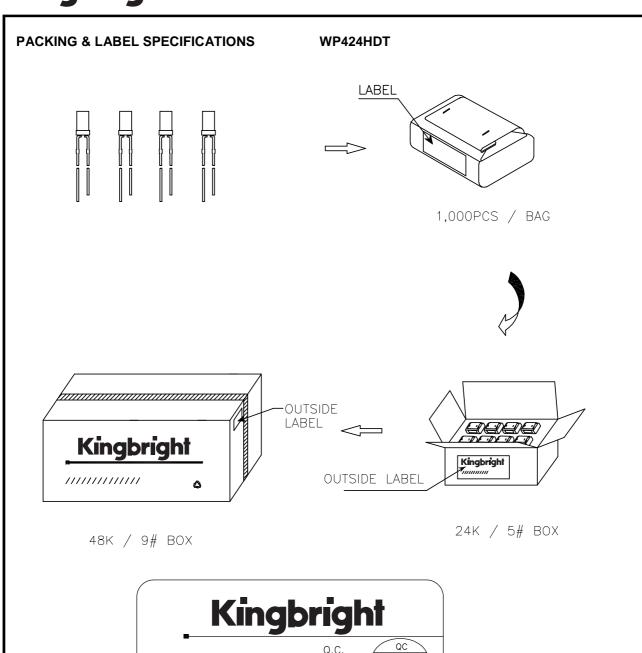
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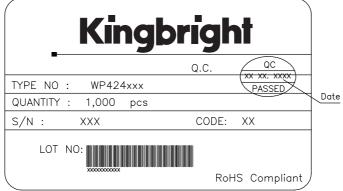


 SPEC NO: DSAF2534
 REV NO: V.1
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Remarks

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.

 SPEC NO: DSAF2534
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