2.4mm FLAT TOP LED LAMP

WP443HDT

BRIGHT RED

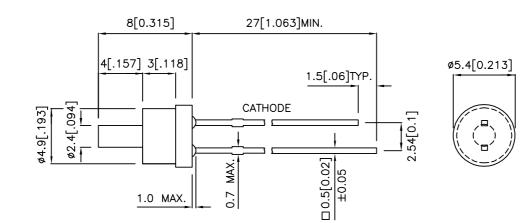
Features

- LOW POWER CONSUMPTION.
- •I.C.COMPTATIBLE.
- LONG LIFE SOLID STATE RELIABILITY.
- FITS 2.4mm HOLE IN PANEL UP TO 4mm THICK.
- RoHS COMPLIANT.

Description

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

SPEC NO: DSAE9392 APPROVED: J. Lu

REV NO: V.2 CHECKED: Allen Liu

DATE: APR/18/2005 DRAWN: W.J.ZHU PAGE: 1 OF 4 ERP: 1101004593

Selection Guid	le				
Part No.	Dice	Lens Type	lv (mcd) @ 10mA		Viewing Angle
			Min.	Тур.	2 0 1/2
WP443HDT	BRIGHT RED (GaP)	RED DIFFUSED	0.4	2	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 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	IF=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
IR	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]	ak Forward Current [1] 130			
Reverse Voltage	5	V		
Operating/Storage Temperature	perating/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			

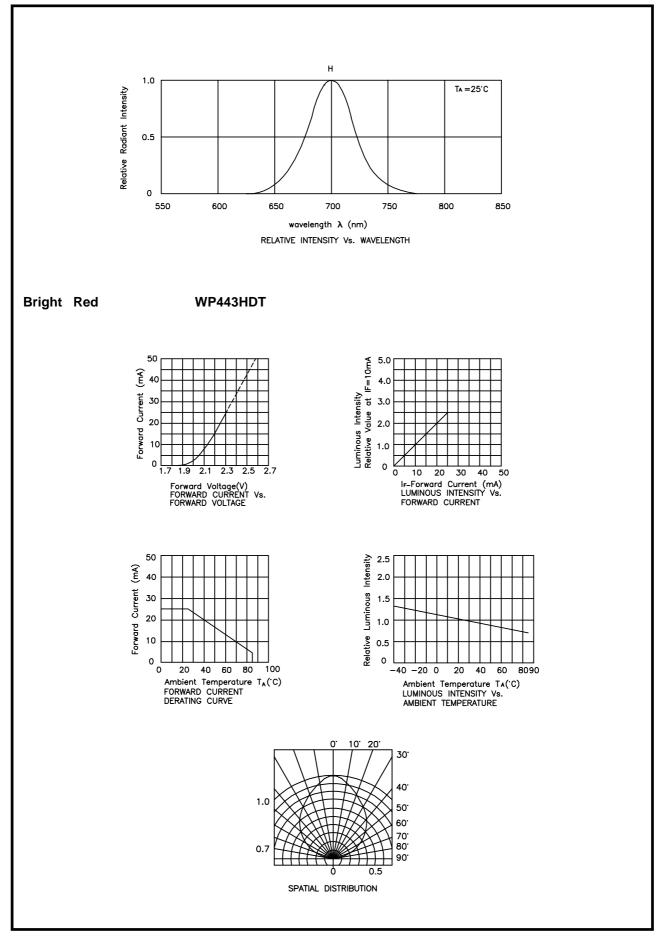
Notes:

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

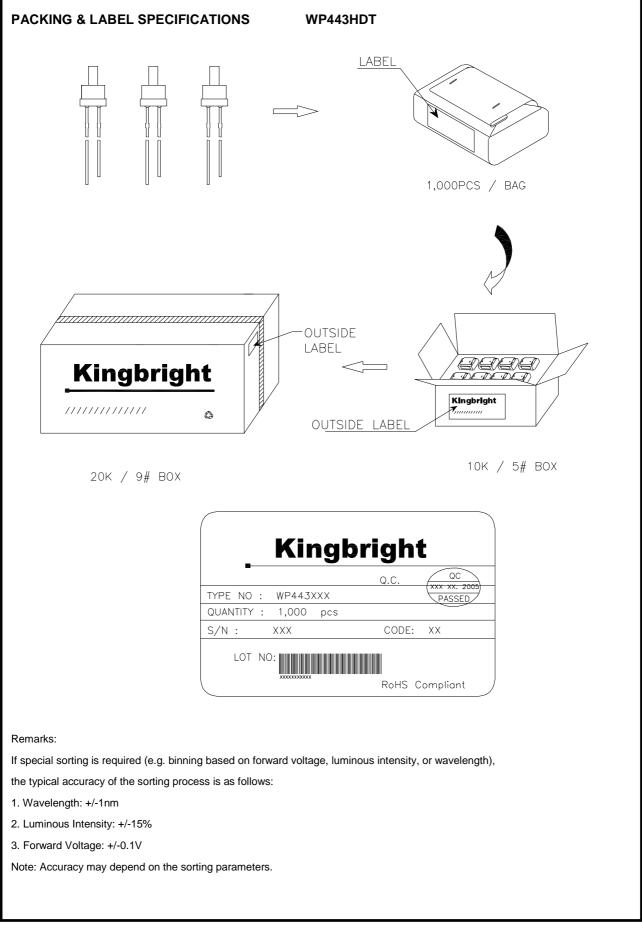
2. 2mm below package base.

3. 5mm below package base.

DATE: APR/18/2005 DRAWN: W.J.ZHU



REV NO: V.2 CHECKED: Allen Liu DATE: APR/18/2005 DRAWN: W.J.ZHU PAGE: 3 OF 4 ERP: 1101004593



DATE: APR/18/2005 DRAWN: W.J.ZHU PAGE: 4 OF 4 ERP: 1101004593