

2mmx5mm RECTANGULAR SOLID LAMP

WP103HDT

BRIGHT RED

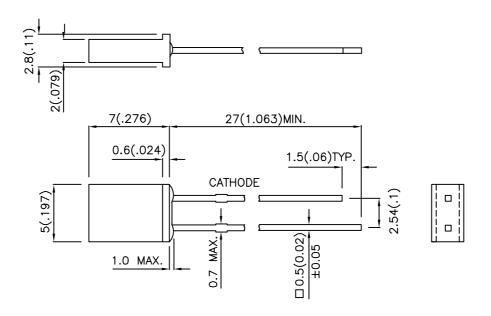
Features

- LOW POWER CONSUMPTION.
- RELIABLE AND RUGGED.
- EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
- SUITABLE FOR LEVEL INDICATOR.
- LONG LIFE SOLID STATE RELIABILITY.
- 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: DSAF2571 APPROVED: J. Lu

REV NO: V.1 CHECKED: Allen Liu DATE: APR/16/2005 DRAWN: Y.W.WANG PAGE: 1 OF 3 ERP:1101000374-01

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Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 10mA		Viewing Angle
			Min.	Тур.	2 θ 1/2
WP103HDT	BRIGHT RED (GaP)	RED DIFFUSED	0.4	1	110°

Note:

Electrical / Optical Characteristics at Ta=25°C

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

Absolute Maximum Ratings at TA=25°C

Parameter	Bright Red			
Power dissipation	120	mW		
DC Forward Current	25	mA		
Peak Forward Current [1]	130	mA		
Reverse Voltage	5	V		
Operating / Storage Temperature	age Temperature -40°C To +85°C			
Lead Solder Temperature [2]	260°C For 3 Seconds			
Lead Solder Temperature [3]	260°C For 5 Seconds			

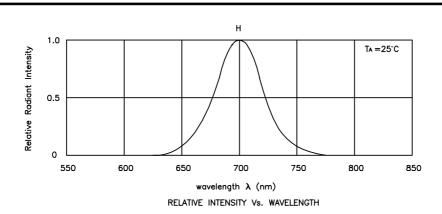
Notes:

- 1.1/10 Duty Cycle, 0.1ms Pulse Width.
 2.2mm below package base.
 5mm below package base.

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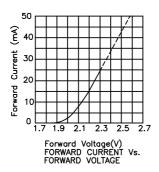
^{1.} θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

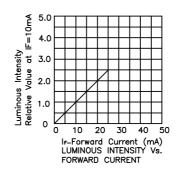
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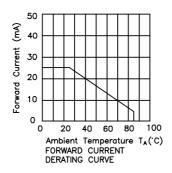


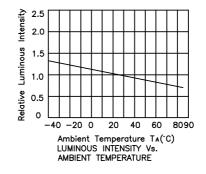
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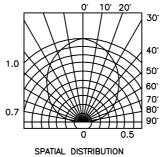
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Remarks

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.

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