

7.6mmX7.6mm SUPER FLUX LED LAMP

WP7676CSURC

HYPER RED

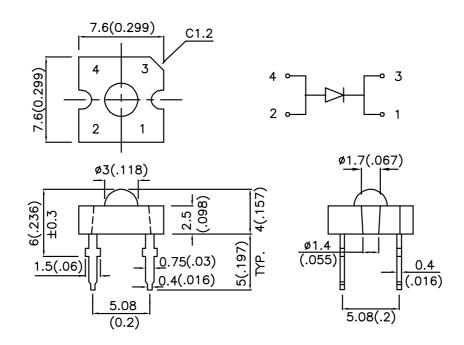
Features

- •SUPER FLUX OUTPUT.
- •DESIGN FOR HIGH CURRENT OPERATION.
- •OUTSTANDING MATERIAL EFFICIENCY.
- •RELIABLE AND RUGGED.
- RoHS COMPLIANT.

Description

The Hyper Red source color devices are made with DH InGaAIP on GaAs substrate Light Emitting Diode.

Package Dimensions



Notes:

- All dimensions are in millimeters (inches).
 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: DSAF2276 **REV NO: V.1** DATE: APR/15/2005 **PAGE: 1 OF 3** APPROVED: J. Lu **CHECKED: Allen Liu** DRAWN: B.H.LI ERP: 1101007267

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Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA *70mA		Viewing Angle
			Min.	Тур.	2 θ 1/2
WP7676CSURC	HYPER RED (InGaAIP)	WATER CLEAR	280	500	70°
			*480	*1000	

Notes:

- 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
- 2. * Luminous intensity with asterisk is measured at 70mA under 40ms pulse width.
- 3. Drive current between 10mA and 30mA are recommended for long term performance.
- 4. Operation at current below 10mA is not recommended.

Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	640		nm	IF=20mA
λD	Dominant Wavelength	Hyper Red	628		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	27		nm	IF=20mA
С	Capacitance	Hyper Red	45		pF	VF=0V;f=1MHz
VF	Forward Voltage	Hyper Red	1.9	2.5	V	IF=20mA
lR	Reverse Current	Hyper Red		10	uA	VR= 5V

Absolute Maximum Ratings at Ta=25°C

Parameter	Hyper Red	Units		
Power dissipation	170	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	185	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			

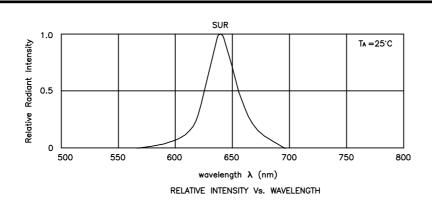
Notes:

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

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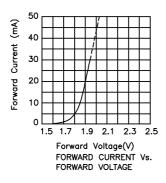
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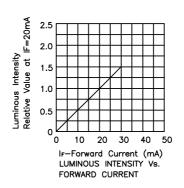
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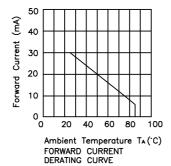


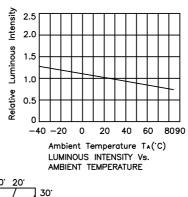
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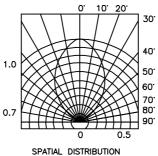
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Remarks:

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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