7.6mmX7.6mm SUPER FLUX LED LAMP

WP7676CSURC

HYPER RED

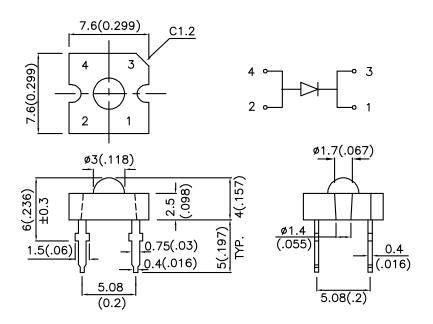
Features

- •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:
 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	Iv (mcd) @ 20mA *70mA		,	Viewing Angle
			Min.	Тур.	2 θ 1/2
WP7676CSURC	HYPER RED (InGaAIP)	WATER CLEAR	280	500	70°
			*480	*1000	

- 1. 91/2 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

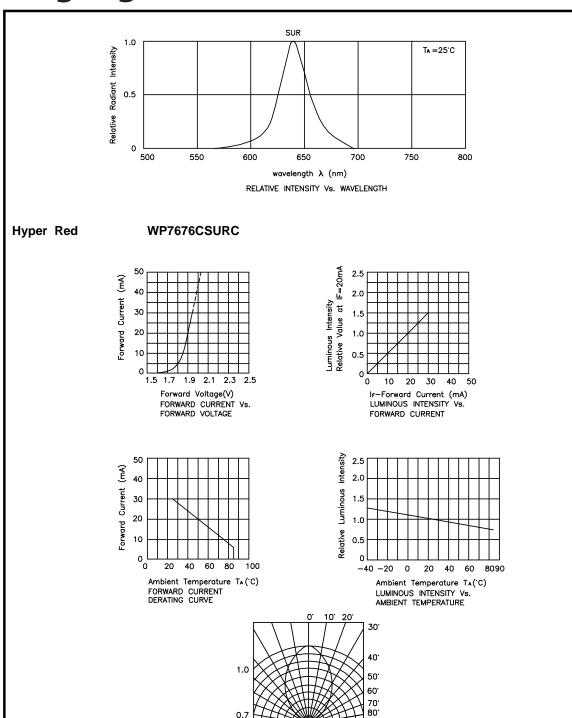
Absolute Maximum Ratings at Ta=25°C

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]	d Solder Temperature [3] 260°C For 5 Seconds				

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

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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:

SPATIAL DISTRIBUTION

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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