WP1703SURC

HYPER RED

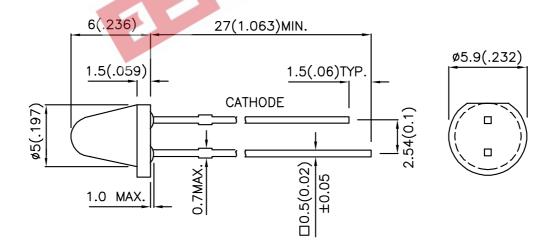
Features

- •OUTSTANDING MATERIAL EFFICIENCY.
- •RELIABLE AND RUGGED.
- •I.C. COMPATIBLE.
- •RoHS COMPLIANT.

Description

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





Notes

- 1. 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.

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle
			Min.	Тур.	2 θ 1/2
WP1703SURC	HYPER RED (InGaAIP)	WATER CLEAR	280	700	50°

Note:

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	4.00	nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	27	9	nm	IF=20mA
С	Capacitance	Hyper Red	45	1111	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		
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]	ead 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.

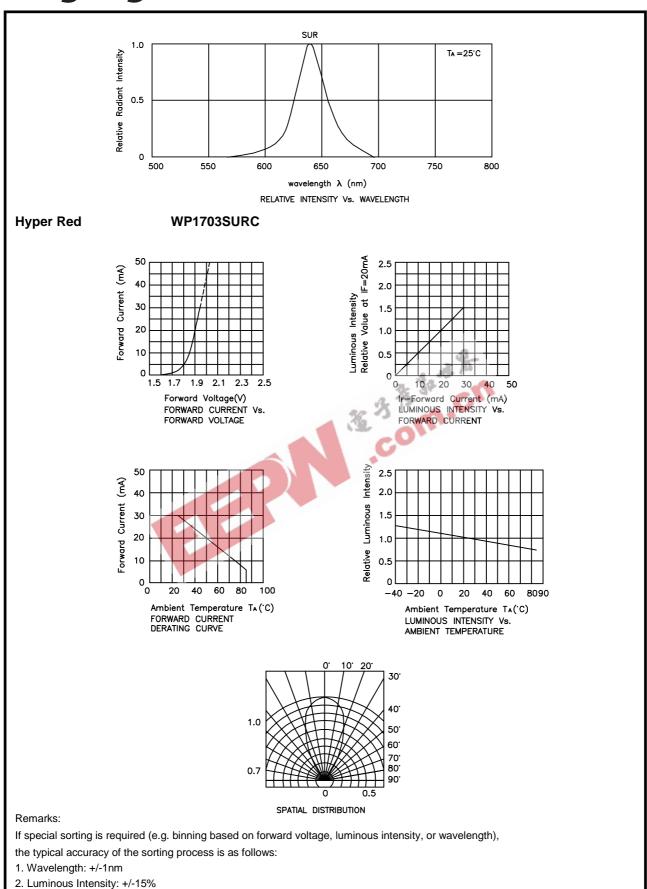
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 $^{1. \}theta 1/2$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

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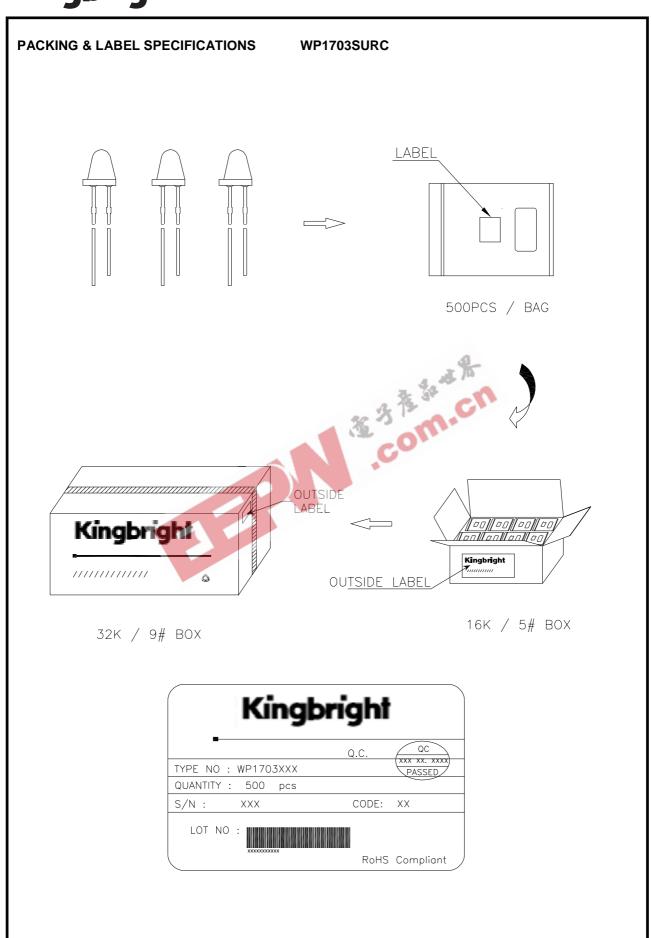
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.



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