#### T-1 3/4 (5mm) BI-COLOR INDICATOR LAMP

PRELIMINARY SPEC

WP59SURKSGC

HYPER RED SUPER BRIGHT GREEN

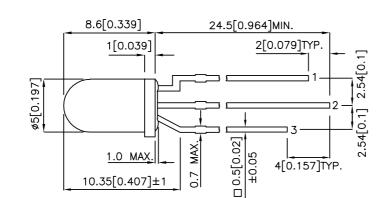
#### Features

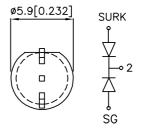
- •UNIFORM LIGHT OUTPUT.
- •LOW POWER CONSUMPTION.
- •3 LEADS WITH ONE COMMON LEAD.
- •I.C. COMPATIBLE.
- •LONG LIFE SOLID STATE RELIABILITY.
- RoHS COMPLIANT.

#### Description

The Hyper Red source color devices are made with DH InGaAIP on GaAs substrate Light Emitting Diode. The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

#### Package Dimensions





1 ANODE RED

2 COMMON CATHODE

3 ANODE GREEN

#### 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 0 1/2			
WP59SURKSGC	HYPER RED (InGaAIP)		480	1100	24°			
	SUPER BRIGHT GREEN (GaP)	WATER CLEAR	70	200				

Note:

1.  $\theta$ 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	Hyper Red Super Bright Green	650 565		nm	IF=20mA
λD	Dominant Wavelength	Hyper Red Super Bright Green	635 568		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red Super Bright Green	28 30		nm	IF=20mA
С	Capacitance	Hyper Red Super Bright Green	35 15		pF	VF=0V;f=1MHz
Vf	Forward Voltage	Hyper Red Super Bright Green	1.95 2.2	2.5 2.5	V	IF=20mA
lr	Reverse Current	All		10	uA	Vr = 5V

#### Absolute Maximum Ratings at TA=25°C

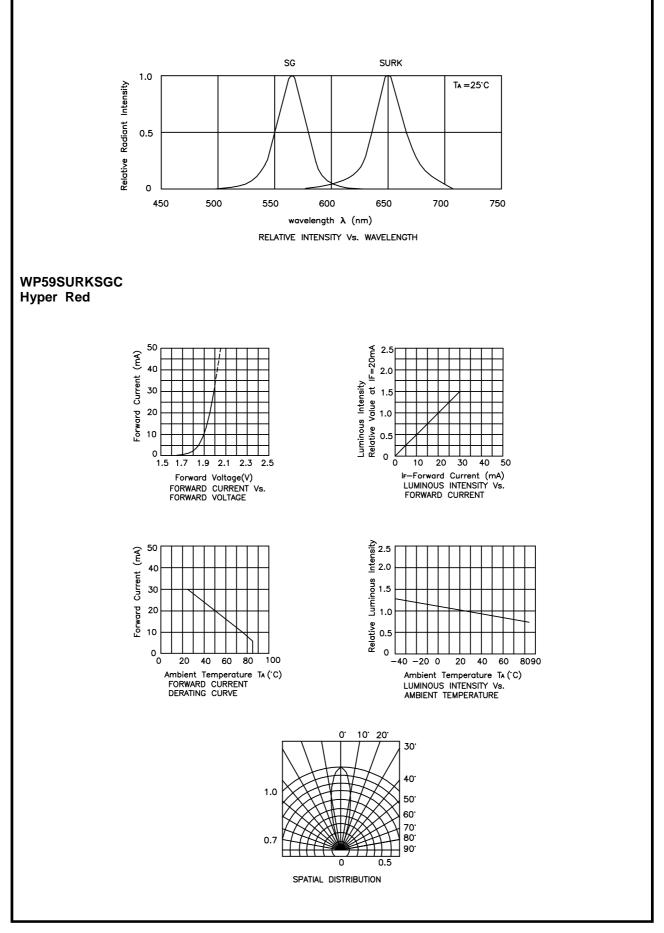
Parameter	Hyper Red	Super Bright Green	Units		
Power dissipation	170	105	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	185	140	mA		
Reverse Voltage	5	5	V		
Operating/storage Temperature	ure -40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3] 260°C For 5 Seconds					

Notes:

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

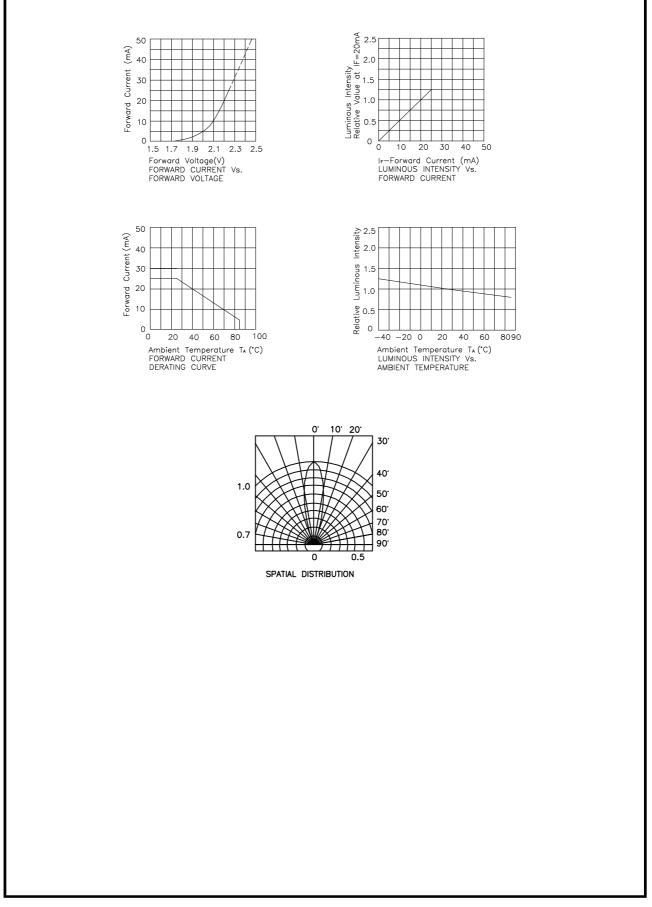
2. 2mm below package base.
3. 5mm below package base.

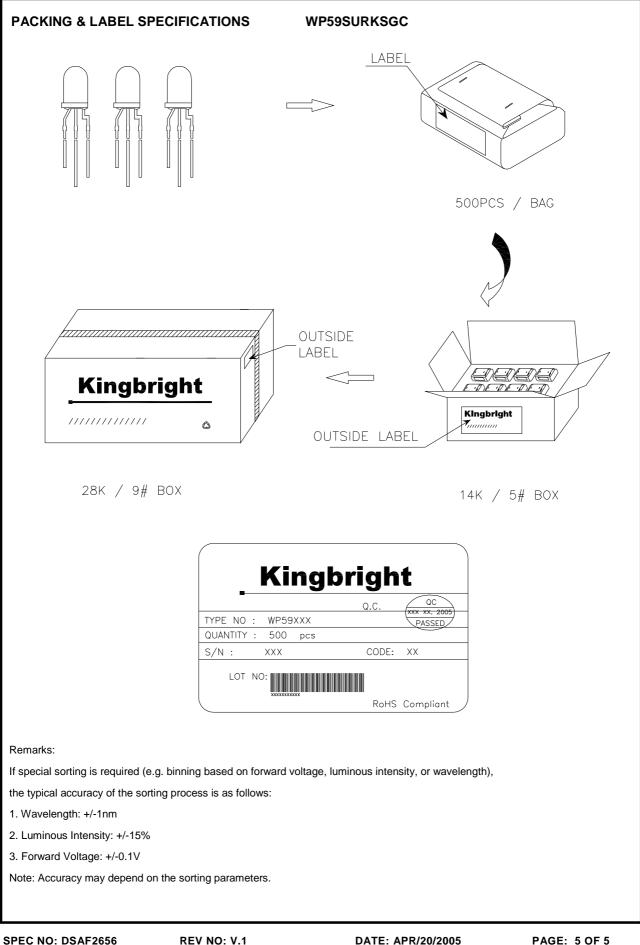
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### Super Bright Green





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