T-1 3/4 (5mm) FULL COLOR LED LAMP

ATTENTION **OBSERVE PRECAUTIONS** FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

P/N: L-154A4SUREPBGVGW

HYPER RED BLUE / GREEN

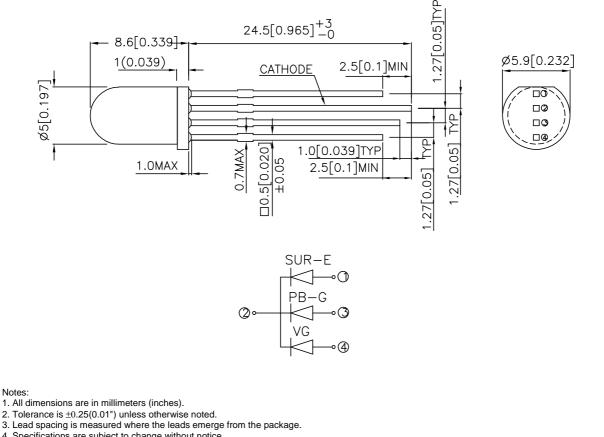
Features

- •UNIFORM LIGHT OUTPUT.
- •LOW POWER CONSUMPTION.
- •I.C.COMPATIBLE.
- •LONG LIFE-SOLID STATE RELIABILITY.
- RoHS COMPLIANT.

Package Dimensions

Description

The Hyper Red source color devices are made with DH InGaAIP on GaAs substrate Light Emitting Diode. The Blue source color devices are made with InGaN on SiC Light Emitting Diode. The Green source color devices are made with InGaN on SiC Light Emitting Diode. Static electricity and surge damage the LEDS. It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs. All devices, equipment and machinery must be electrically grounded.



4. Specifications are subject to change without notice.

SPEC NO: DSAB1704 **APPROVED: J. Lu**

REV NO: V.11 CHECKED: Allen Liu DATE: NOV/16/2005 DRAWN: F.LI

Selection Guide Part No. Dice Lens Type Iv @ HYPER RED (InGaAIP) Min. 380 L-154A4SUREPBGVGW BLUE (InGaN) WHITE DIFFUSED 180

Note:

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

GREEN (InGaN)

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red Blue Green	640 468 520		nm	IF=20mA
λD	Dominant Wavelength	Hyper Red Blue Green	630 470 525		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red Blue Green	25 26 38		nm	IF=20mA
С	Capacitance	Hyper Red Blue Green	45 110 45		pF	VF=0V;f=1MHz
VF	Forward Voltage	Hyper Red Blue Green	1.9 3.6 3.5	2.5 4.3 4.5	V	IF=20mA
IR	Reverse Current	Hyper Red Blue Green		10 10 10	uA	Vr = 5V

Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red	Blue	Green	Units			
Power dissipation	150	102	105	mW			
DC Forward Current	30	30	30	mA			
Peak Forward Current [1]	200	150	150	mA			
Reverse Voltage		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.

lv (mcd) @ 20mA

180

Тур.

750

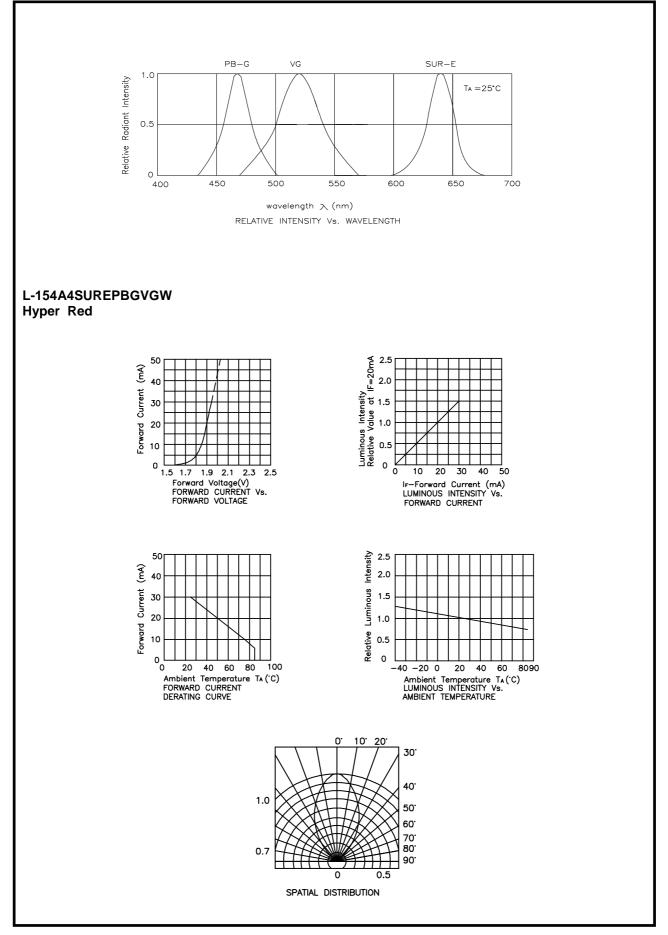
450

500

Viewing Angle

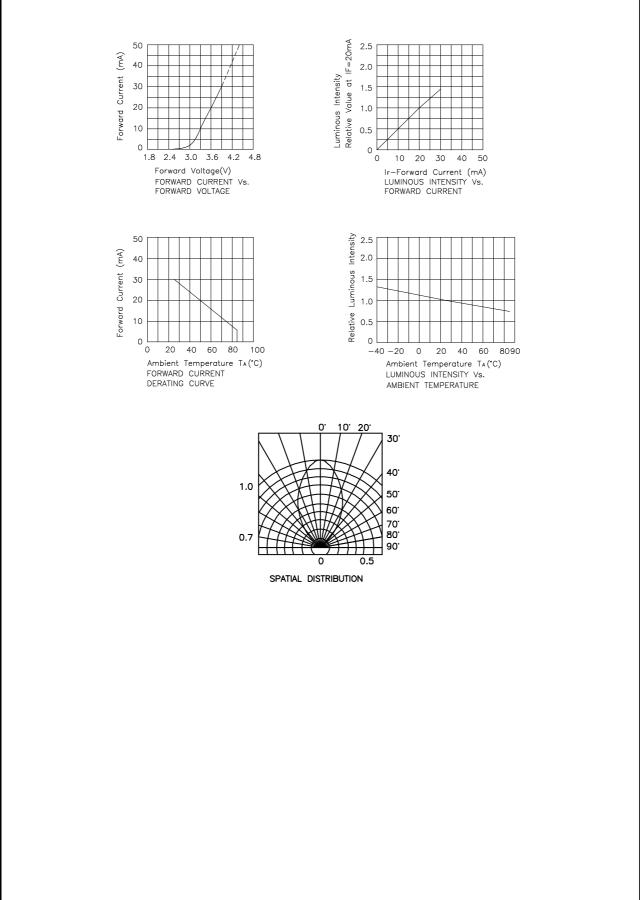
201/2

 60°

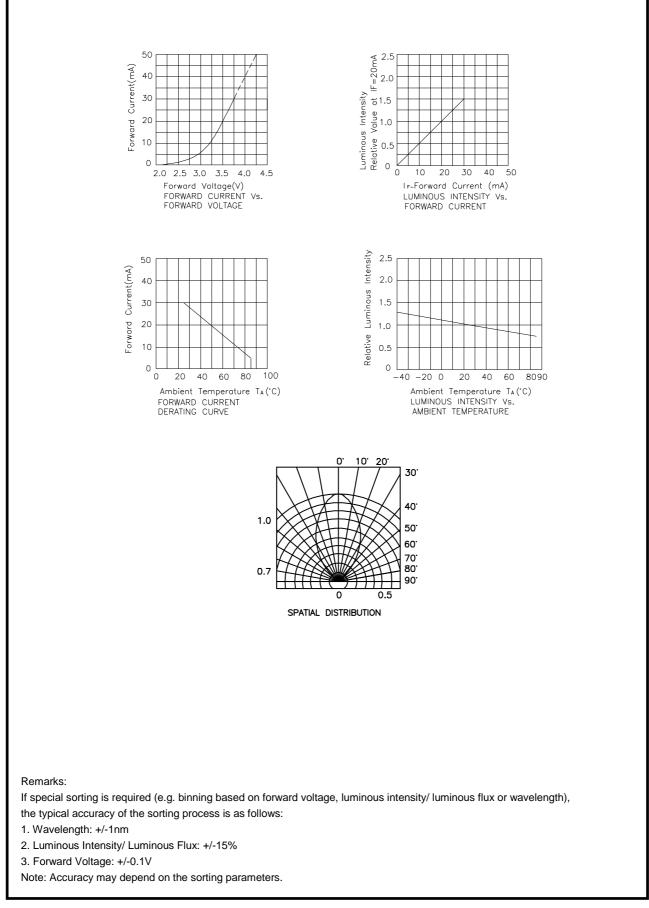


SPEC NO: DSAB1704 APPROVED: J. Lu REV NO: V.11 CHECKED: Allen Liu DATE: NOV/16/2005 DRAWN: F.LI

Blue



Green



REV NO: V.11 CHECKED: Allen Liu DATE: NOV/16/2005 DRAWN: F.LI