8mm BI-COLOR INDICATOR LAMP

Part Number: L-799SURKCGKW

Hyper Red Green

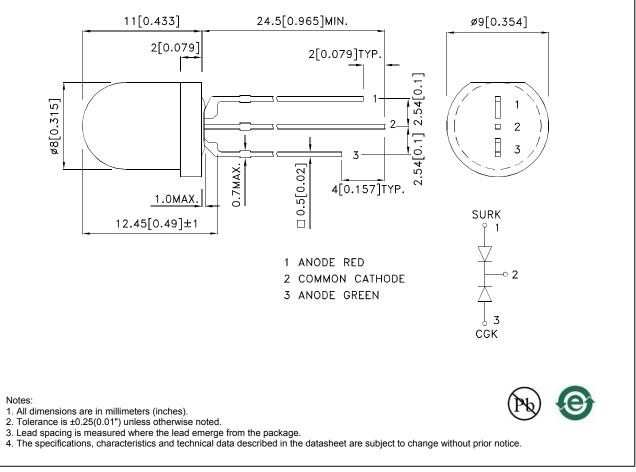
Features

- Uniform light output.
- Low power consumption.
- 3 leads with one common lead.
- Long life solid state reliability.
- RoHS compliant.

Description

The Hyper Red source color devices are made with Al-GalnP on GaAs substrate Light Emitting Diode. The Green source color devices are made with AlGalnP on GaAs substrate Light Emitting Diode.

Package Dimensions



SPEC NO: DSAL2534 APPROVED: WYNEC REV NO: V.4A CHECKED: Allen Liu DATE: MAY/26/2012 DRAWN: F.Cui PAGE: 1 OF 7 ERP: 1101026195

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Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
L-799SURKCGKW	Hyper Red (AlGaInP)	- White Diffused	400	800	50°
			*150	*300	
	Green (AlGalnP)		55	130	
			*55	*130	

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
Luminous intensity/ luminous Flux: +/-15%.

*Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Ту	′p.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red Green	650 574	*645 *574		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Hyper Red Green	630 570	*630 *570		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red Green	2 2	8 0		nm	I⊧=20mA
С	Capacitance	Hyper Red Green	3 1	5 5		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Red Green	1.9 2.	95 .1	2.5 2.5	V	I⊧=20mA
lr	Reverse Current	Hyper Red Green			10 10	uA	VR = 5V

Notes:

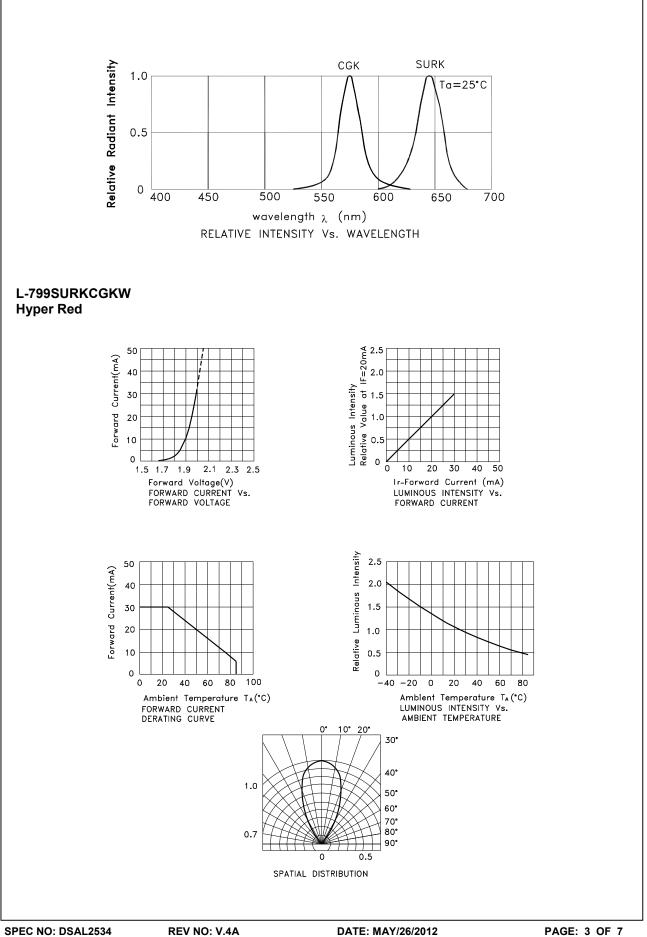
Wavelength: +/-1nm.
Forward Voltage: +/-0.1V.
*Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

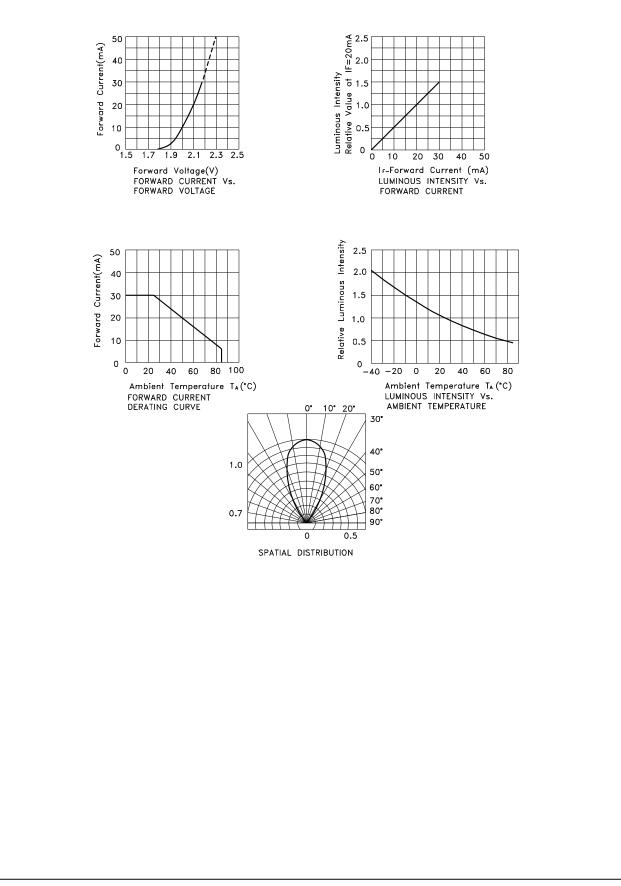
Parameter	Hyper Red	Green	Units		
Power dissipation	75	75	mW		
DC Forward Current	30	30	mA		
Peak Forward Current [1]	185	150	mA		
Reverse Voltage	ł	V			
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C For 5 Seconds				
Notes:					

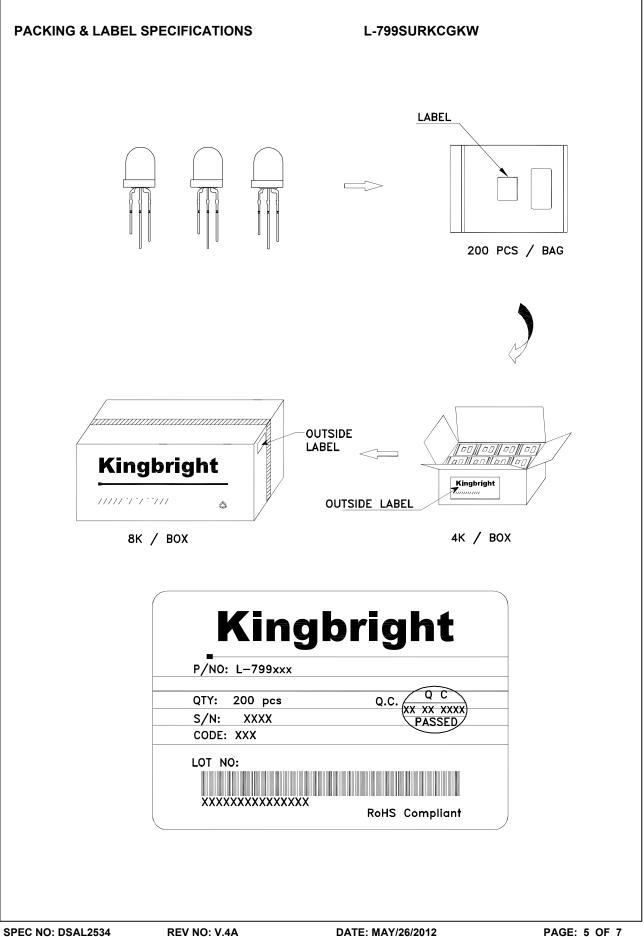
Notes

1.1/10 Duty Cycle, 0.1ms Pulse Width.
2.2mm below package base.
3.5mm below package base.



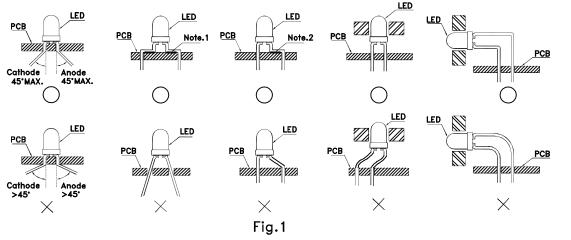
Green





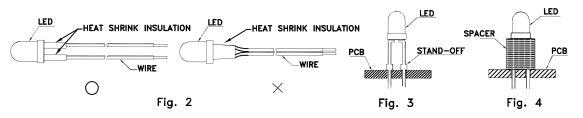
PRECAUTIONS

1. The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement. Lead-forming may be required to insure the lead pitch matches the hole pitch. Refer to the figure below for proper lead forming procedures. (Fig. 1)



")" Correct mounting method "imes" Incorrect mounting method

- 2. When soldering wire to the LED, use individual heat-shrink tubing to insulate the exposed leads to prevent accidental contact short-circuit. (Fig.2)
- 3. Use stand-offs (Fig.3) or spacers (Fig.4) to securely position the LED above the PCB.



- 4. Maintain a minimum of 2mm clearance between the base of the LED lens and the first lead bend. (Fig. 5 and 6)
- 5. During lead forming, use tools or jigs to hold the leads securely so that the bending force will not be transmitted to the LED lens and its internal structures. Do not perform lead forming once the component has been mounted onto the PCB. (Fig. 7)

