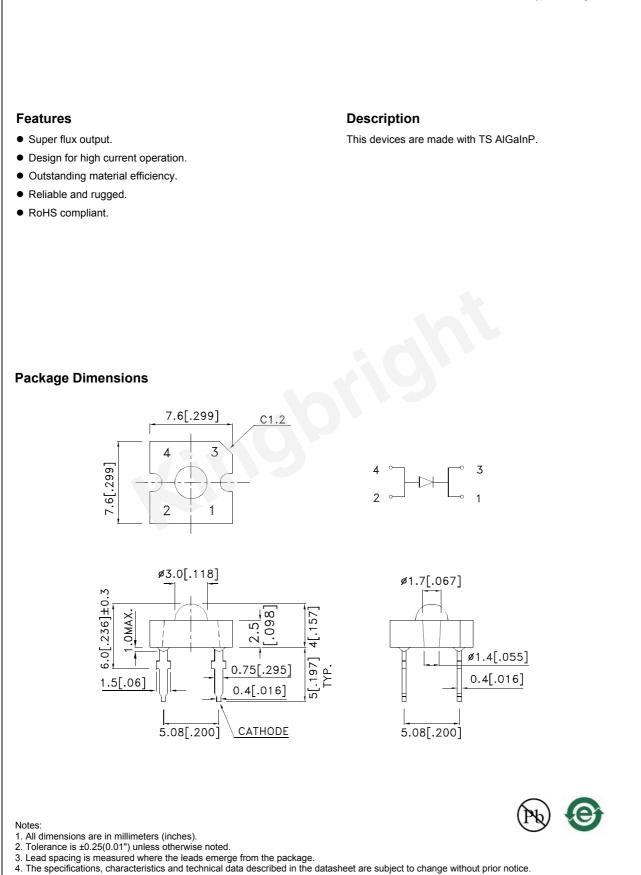
7.6mmX7.6mm SUPER FLUX LED LAMP

Part Number: L-7676CSEC-H Hyper Orange



REV NO: V.19A CHECKED: Allen Liu DATE: AUG/11/2014 DRAWN: Y.Liu PAGE: 1 OF 6 ERP: 1101010222

Selection Guide						
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Φv (mlm) [2] @ 20mA	Viewing Angle [1]
			Min. Typ.	Тур.	Тур.	201/2
L-7676CSEC-H	Hyper Orange (AlGaInP)	Water Clear	700	1300	*1200	70°
			*400	*800		

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%.LEDs are binned according to their Luminous intensity.

3. Drive current between 10mA and 30mA are recommended for long term performance.

Operation at current below 10mA is not recommended.
 * Luminous intensity/ luminous Flux value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Parameter	Device	Тур.	Max.	Units	Test Conditions
Peak Wavelength	Hyper Orange	635		nm	IF=20mA
Dominant Wavelength	Hyper Orange	625		nm	IF=20mA
Spectral Line Half-width	Hyper Orange	25		nm	IF=20mA
Capacitance	Hyper Orange	27		pF	V⊧=0V;f=1MHz
Forward Voltage	Hyper Orange	2.2	2.8	V	I⊧=20mA
Reverse Current	Hyper Orange		10	uA	VR = 5V
	Peak Wavelength Dominant Wavelength Spectral Line Half-width Capacitance Forward Voltage	Peak WavelengthHyper OrangeDominant WavelengthHyper OrangeSpectral Line Half-widthHyper OrangeCapacitanceHyper OrangeForward VoltageHyper Orange	Peak WavelengthHyper Orange635Dominant WavelengthHyper Orange625Spectral Line Half-widthHyper Orange25CapacitanceHyper Orange27Forward VoltageHyper Orange2.2	Peak WavelengthHyper Orange635Dominant WavelengthHyper Orange625Spectral Line Half-widthHyper Orange25CapacitanceHyper Orange27Forward VoltageHyper Orange2.2	Peak WavelengthHyper Orange635nmDominant WavelengthHyper Orange625nmSpectral Line Half-widthHyper Orange25nmCapacitanceHyper Orange27pFForward VoltageHyper Orange2.22.8V

Notes:

1.Wavelength: +/-1nm.

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

Absolute Maximum Ratings at TA=25°C

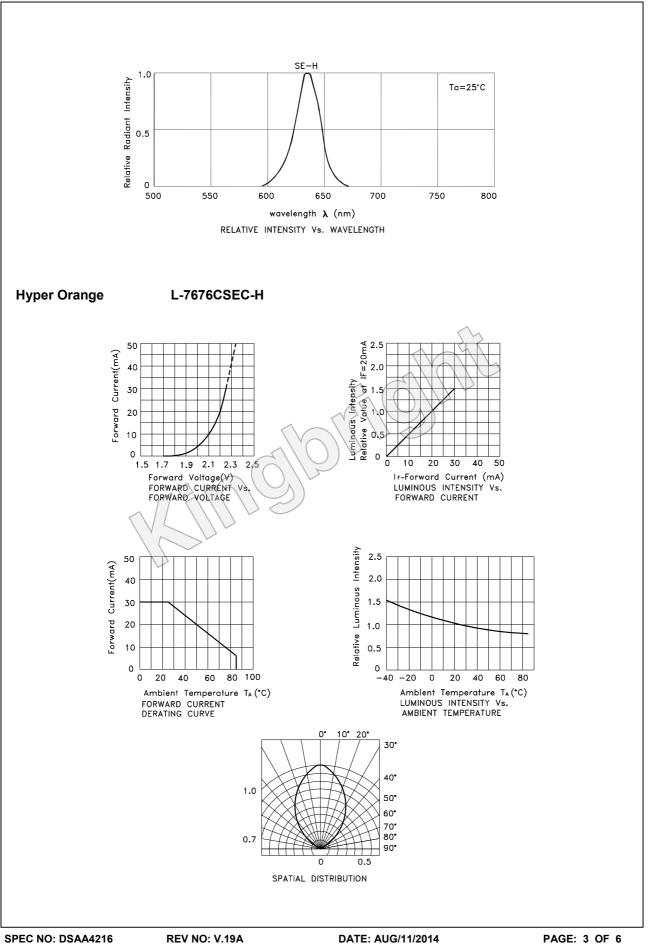
Hyper Orange				
84	mW			
30	mA			
150	mA			
5	V			
-40°C To +85°C				
260°C For 3 Seconds				
260°C For 5 Seconds				
	84 30 150 5 -40°C To +85°C 260°C For 3 Seconds			

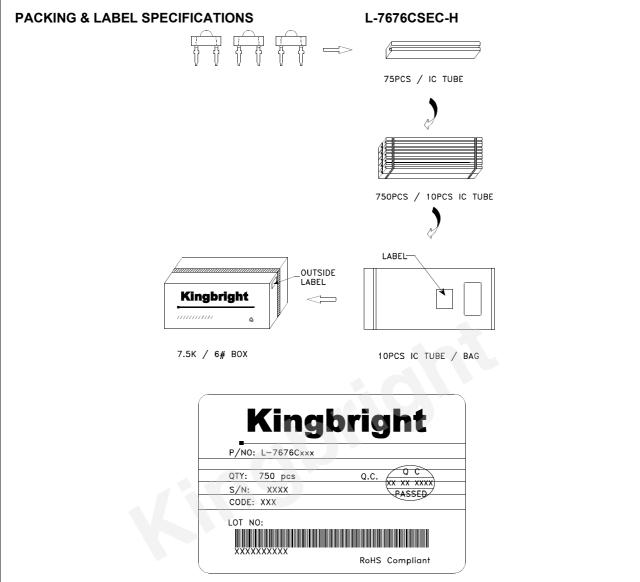
Notes:

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

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

DATE: AUG/11/2014 DRAWN: Y.Liu



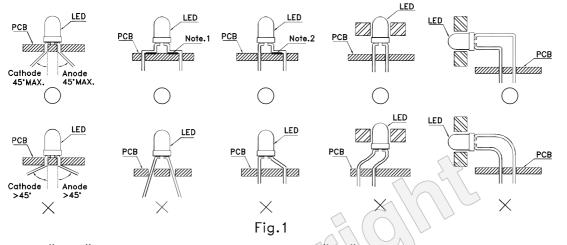


Terms and conditions for the usage of this document

- 1. The information included in this document reflects representative usage scenarios and is intended for technical reference only.
- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
- 5. The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright.
- 6.All design applications should refer to Kingbright application notes available at http://www.kingbright.com/application_notes

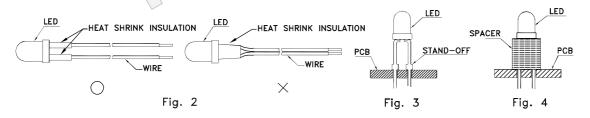
PRECAUTIONS

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)



O "Correct mounting method "X" Incorrect mounting method

- 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 3mm 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)

