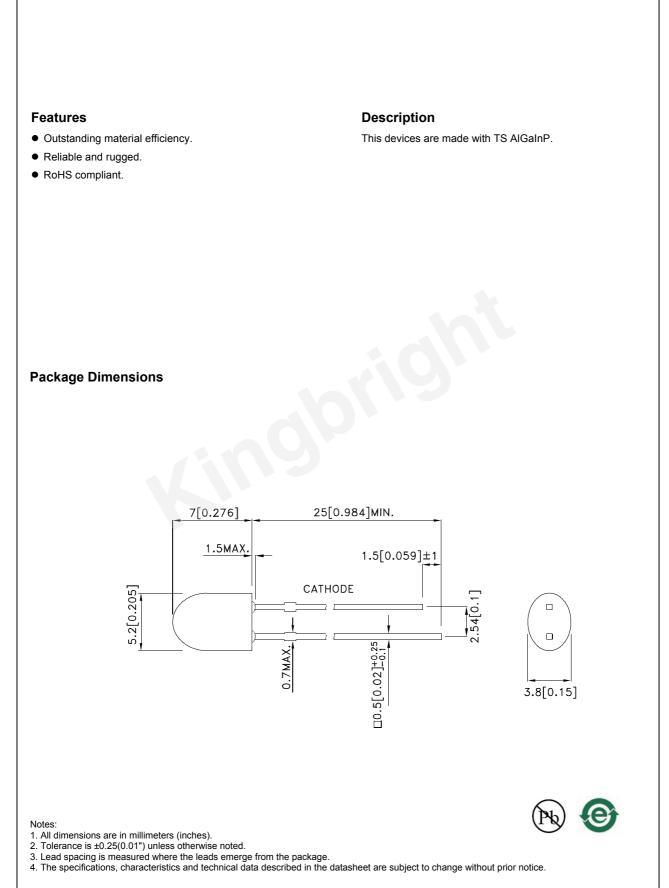
OVAL SOLID STATE LAMP

Part Number: L-5603SIDL/SD-H Hyper Orange



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Selection Guide lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. Dice Lens Type Min. 201/2 Тур. 1100 2200 80°(H) L-5603SIDL/SD-H Hyper Orange (AlGaInP) Red Semi Diffused 40°(V) *400 *900

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	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Orange	635		nm	IF=20mA
λD [1]	Dominant Wavelength	Hyper Orange	625		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Orange	25		nm	IF=20mA
С	Capacitance	Hyper Orange	27		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Hyper Orange	2.2	2.8	V	IF=20mA
lr	Reverse Current	Hyper Orange		10	uA	VR = 5V

Notes:

1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

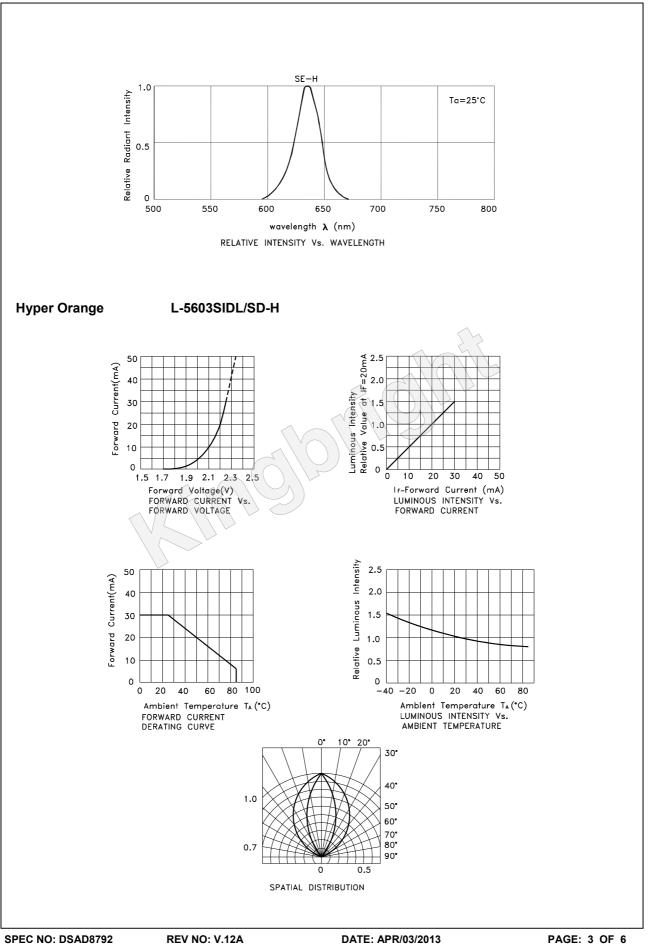
Absolute Maximum Ratings at TA=25°C

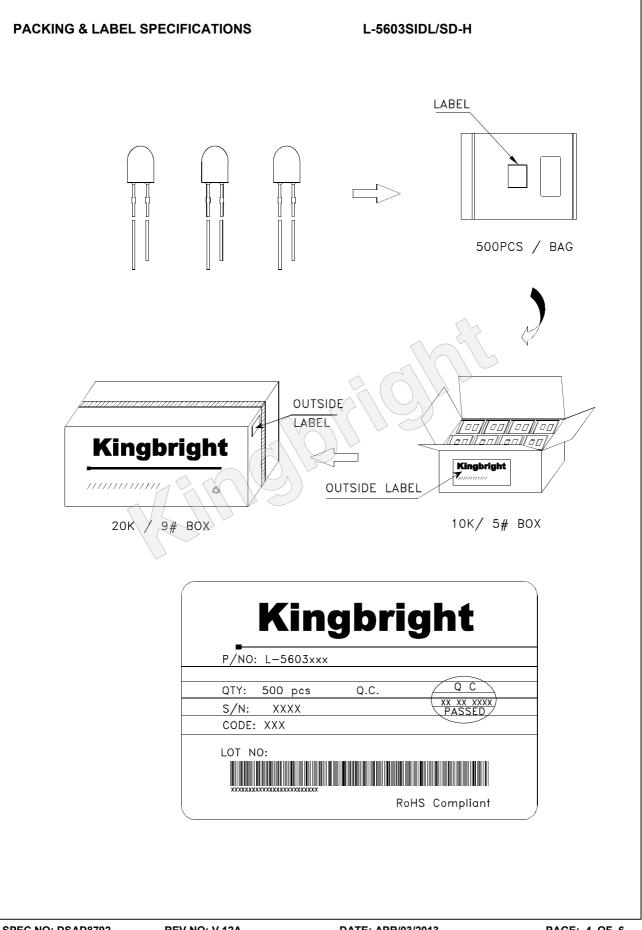
Hyper Orange					
84	mW				
30	mA				
150	mA				
5	V				
-40°C To +85°C					
Lead Solder Temperature [2] 260°C For 3 Seconds					
_ead Solder Temperature [3] 260°C For 5 Seconds					
	84 30 150 5 -40°C To +85°C 260°C For 3 Seconds				

Notes:

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

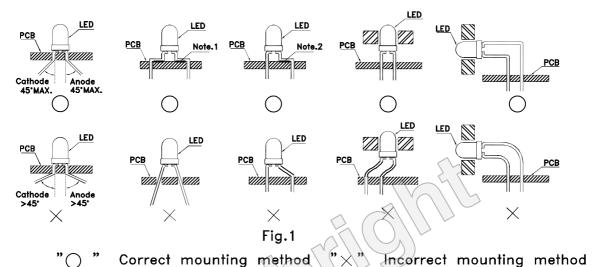
2. 2mm below package base.
3. 5mm below package base.



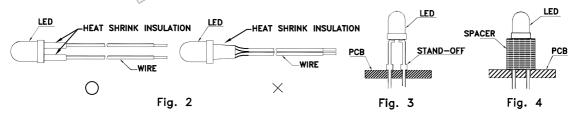


PRECAUTIONS

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)

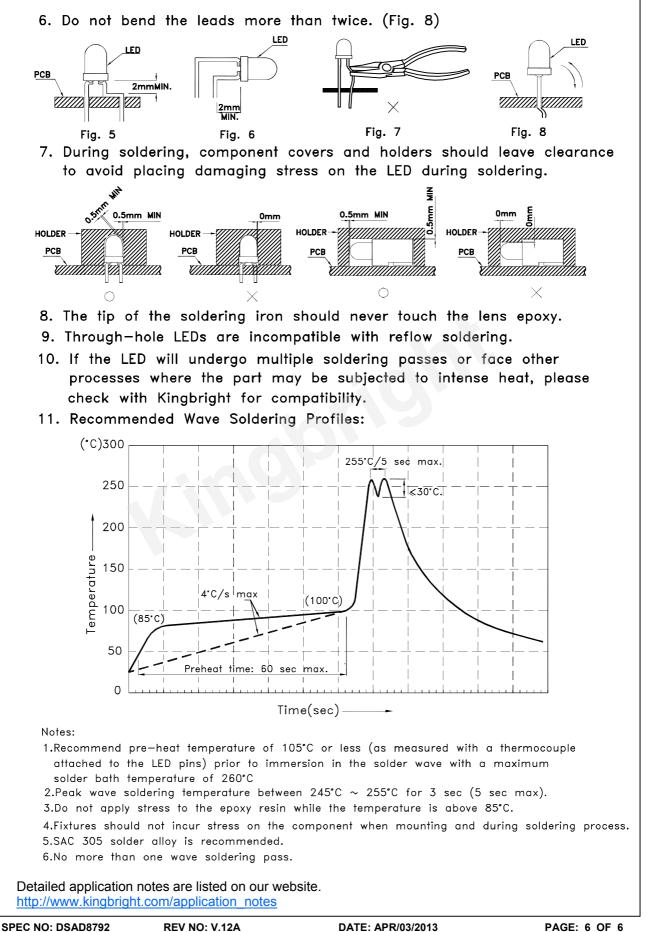


- 2. When soldering wire to the LED, use individual heat-shrink tubing to insulate the exposed leads to prevent accidental contact short-circuit.
- 3. Use stand-offs (Fig.3) or spacers (Fig.4) to securely position the LED above the PCB.



- 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)

(Fig.2)



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