

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
L-115WSURKSGW	Hyper Red (AlGaInP)	White Diffused	380	600	60°
	Super Bright Green (GaP)		10	35	

Notes:

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

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Hyper Red Super Bright Green	650 565		nm	I _F =20mA
λ_D [1]	Dominant Wavelength	Hyper Red Super Bright Green	630 568		nm	I _F =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Hyper Red Super Bright Green	28 30		nm	I _F =20mA
C	Capacitance	Hyper Red Super Bright Green	35 15		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Hyper Red Super Bright Green	1.95 2.2	2.5 2.5	V	I _F =20mA
I _R	Reverse Current	Hyper Red Super Bright Green		10 10	uA	V _R = 5V

Notes:

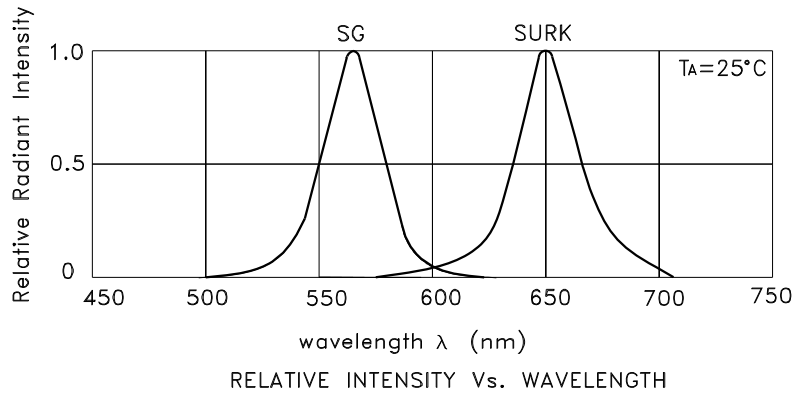
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

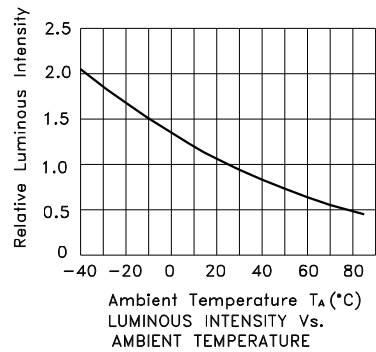
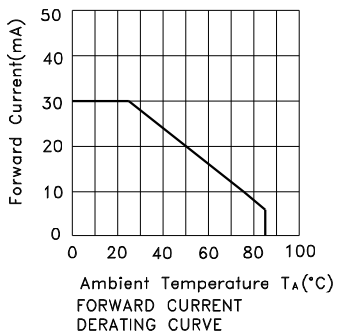
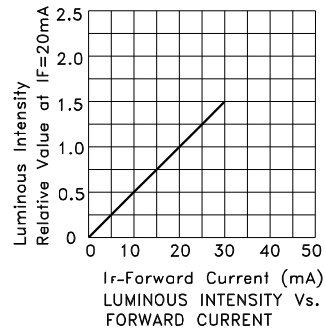
Parameter	Hyper Red	Super Bright Green	Units
Power dissipation	75	62.5	mW
DC Forward Current	30	25	mA
Peak Forward Current [1]	185	140	mA
Reverse Voltage	5		V
Operating / Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	260°C For 3 Seconds		
Lead Solder Temperature [3]	260°C For 5 Seconds		

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.

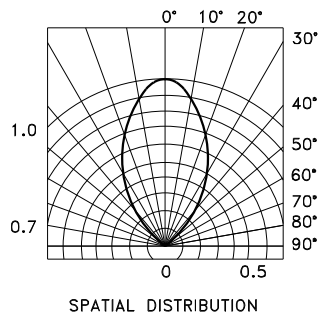


L-115WSURKSGW Hyper Red



Kingbright

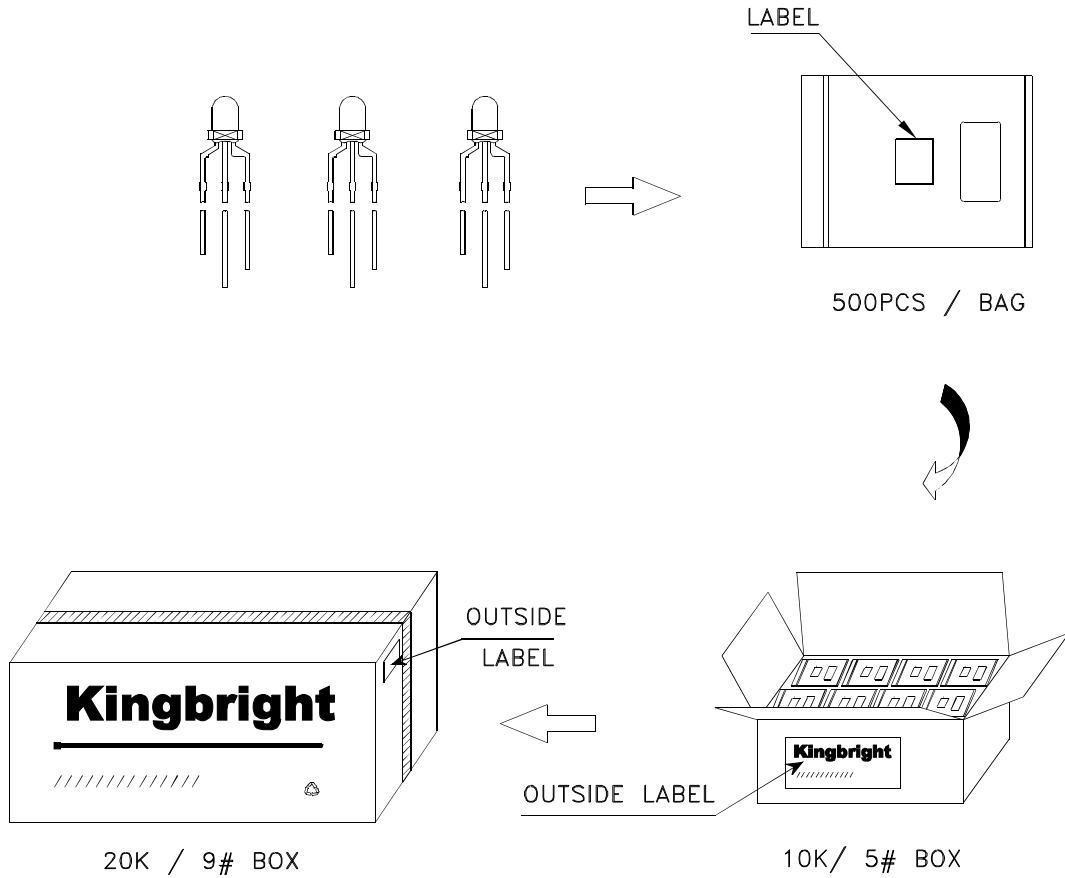
Super Bright Green




Kingbright

PACKING & LABEL SPECIFICATIONS

L-115WSURKSGW



Kingbright	
P/NO: L-115WXXX	
QTY: 500 pcs	Q.C. Q C XX-XX-XXXX PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:	
 <small>XXXXXXXXXXXXXXXXXXXX</small>	
RoHS Compliant	

LED MOUNTING METHOD

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)

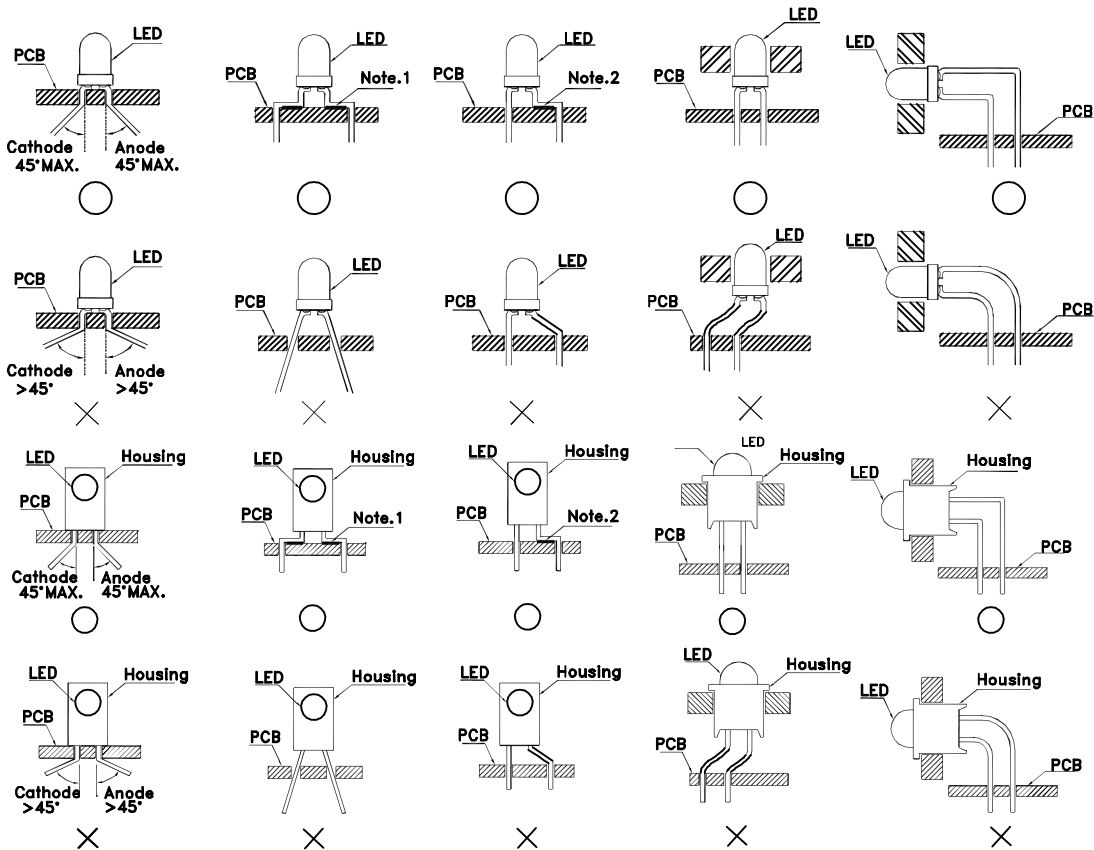


Fig.1

“○” Correct mounting method “×” Incorrect mounting method
 Note 1-2 : Do not route PCB trace in the contact area between the leadframe and the PCB to prevent short-circuits.

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.

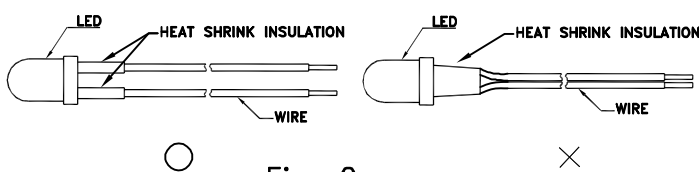


Fig. 2

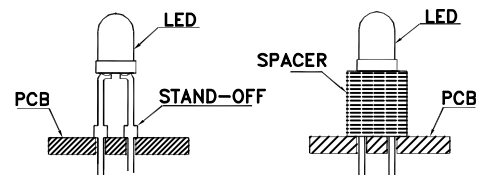


Fig. 3

Fig. 4

LEAD FORMING PROCEDURES

1. Maintain a minimum of 2mm clearance between the base of the LED lens and the first lead bend. (Fig. 5 and 6)

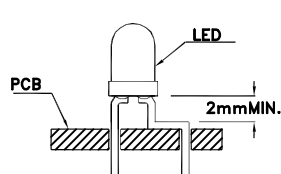


Fig. 5

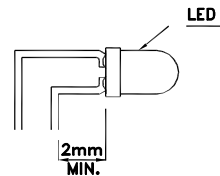


Fig. 6

2. Lead forming or bending must be performed before soldering, never during or after Soldering.
3. Do not stress the LED lens during lead-forming in order to fractures in the lens epoxy and damage the internal structures.
4. 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)
5. Do not bend the leads more than twice. (Fig. 8)
6. After soldering or other high-temperature assembly, allow the LED to cool down to 50°C before applying outside force (Fig. 9). In general, avoid placing excess force on the LED to avoid damage. For any questions please consult with Kingbright representative for proper handling procedures.

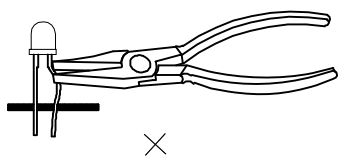


Fig. 7

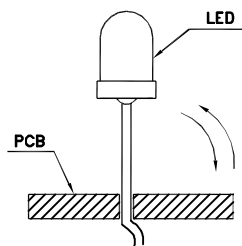


Fig. 8

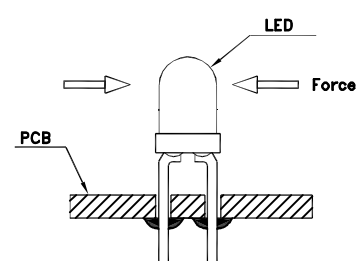
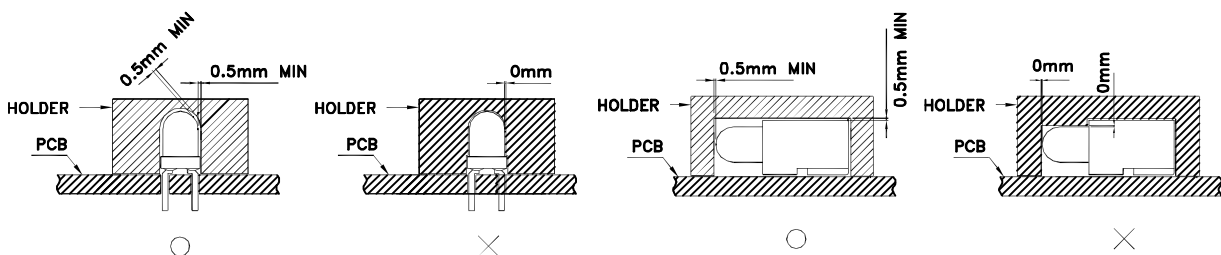


Fig. 9

7. No stress shall be applied on the LED during soldering to prevent damage.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Standard LEDs - Through Hole category](#):

Click to view products by [Kingbright manufacturer](#):

Other Similar products are found below :

[LTL-10254W](#) [LTL-1214A](#) [LTL-1BEDJ](#) [LTL-2231AT](#) [LTL-3251A](#) [LTL-4262N](#) [LTL-5234](#) [LTL87HTBK](#) [LTL-87HD4B](#) [7383/V7C3-BSTA-L/PR3/MS](#) [HLMP-AG64-X10ZZ](#) [HLMP-EG1A-Z10DV](#) [HLMP-EL3B-WXKDD](#) [HLMP-HB74-UVBDD](#) [HLMP-HG65-VY0DD](#) [HLMP-HM74-34CDD](#) [HLMP-HM75-34CDD](#) [1L0532V23G0TD001](#) [NSPW500CS](#) [C4SMA-BGF-CQ34Q3C2](#) [L53GC13](#) [264-7SURTS530-A3](#) [L-C150JRCT](#) [S4SMS-BJF-CQ42QGF2](#) [S4SMS-GJF-CW12QMF2](#) [LD CQDP-1U3U-W5-1-K](#) [LO566UHR3-70G-A3](#) [SLA560WBD2PT3](#) [LP379PPG1C0G0300001](#) [SLR-322MCT32](#) [SLR-342DUT32](#) [SLR-342MC3F](#) [SLR343BC7TT32](#) [SLR343BCTT32](#) [SLX-LX3044GD](#) [SLX-LX3044ID](#) [SLX-LX3044YD](#) [1.90690.3330000](#) [SSL-LX20483ID](#) [SSL-LX3034YD](#) [SSL-LX5093LGT-11](#) [SSL-LX5093PGC](#) [SSL-LX5093SRC/F](#) [SSL-LX5093SYT](#) [SSL-LX509E3SIT](#) [SSL-LX509FT3ID](#) [SSL-LX50FT3GD](#) [SSS-LX4673ID-410B](#) [1L0532Y24I0TD001](#) [264-7SYGD/S530-E2](#)