T-1(3mm) BI-COLOR INDICATOR LAMP

Part Number: L-3VEGW

High Efficiency Red Green

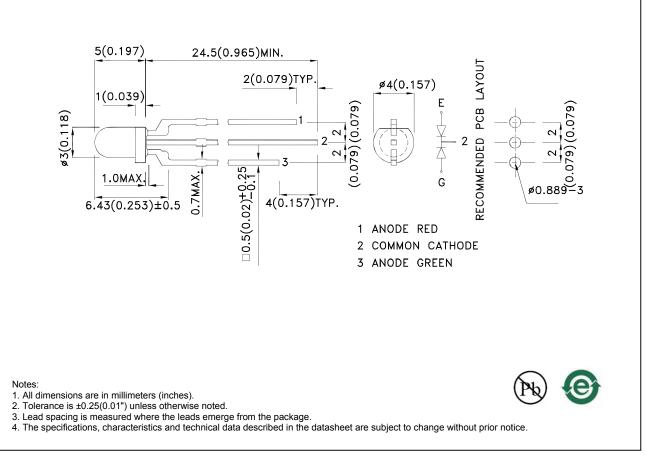
Features

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

Descriptions

- The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.
- The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions



SPEC NO: DSAA6515 APPROVED: WYNEC REV NO: V.20A CHECKED: Allen Liu DATE: AUG/15/2014 DRAWN: L.Q.Xie PAGE: 1 OF 7 ERP: 1101003928-03

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
	High Efficiency Red (GaAsP/GaP)	White Diffused	15	40	60°
L-3VEGW			*10	*30	
	Green (GaP)		20	40	
			*20	*40	

Notes:

1. θ 1/2 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	High Efficiency Red Green	627 565		nm	IF=20mA
λD [1]	Dominant Wavelength	High Efficiency Red Green	617 568		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red Green	45 30		nm	I⊧=20mA
С	Capacitance	High Efficiency Red Green	15 15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	High Efficiency Red Green	2 2.2	2.5 2.5	V	I⊧=20mA
lr	Reverse Current	High Efficiency Red Green		10 10	uA	VR = 5V

Notes:

1.Wavelength: +/-1nm.

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

Absolute Maximum Ratings at TA=25°C

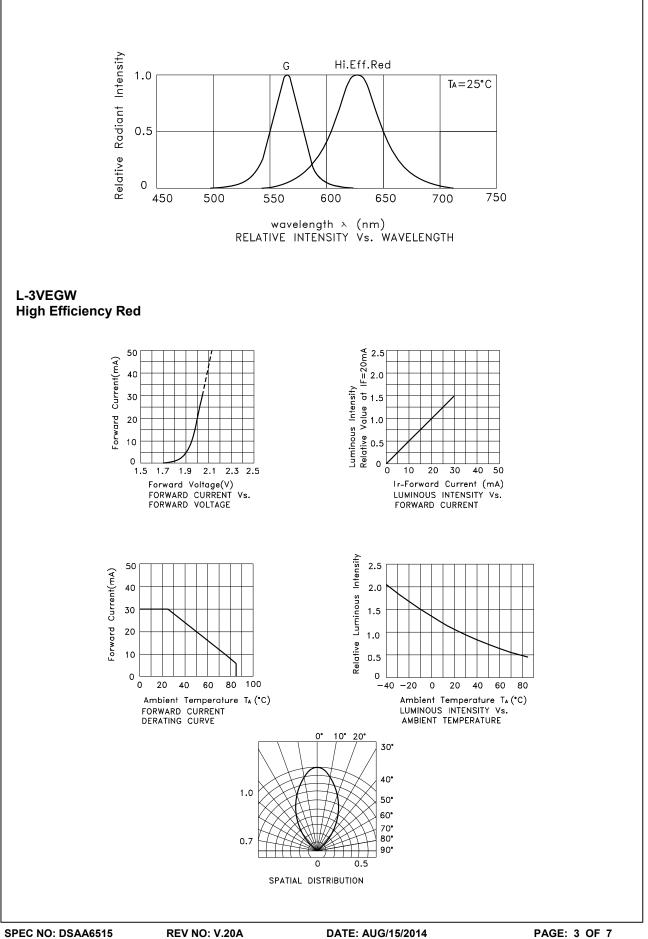
Parameter	High Efficiency Red	Green	Units		
Power dissipation	75	62.5	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	160	140	mA		
Reverse Voltage		V			
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C For 5 Seconds				

Notes:

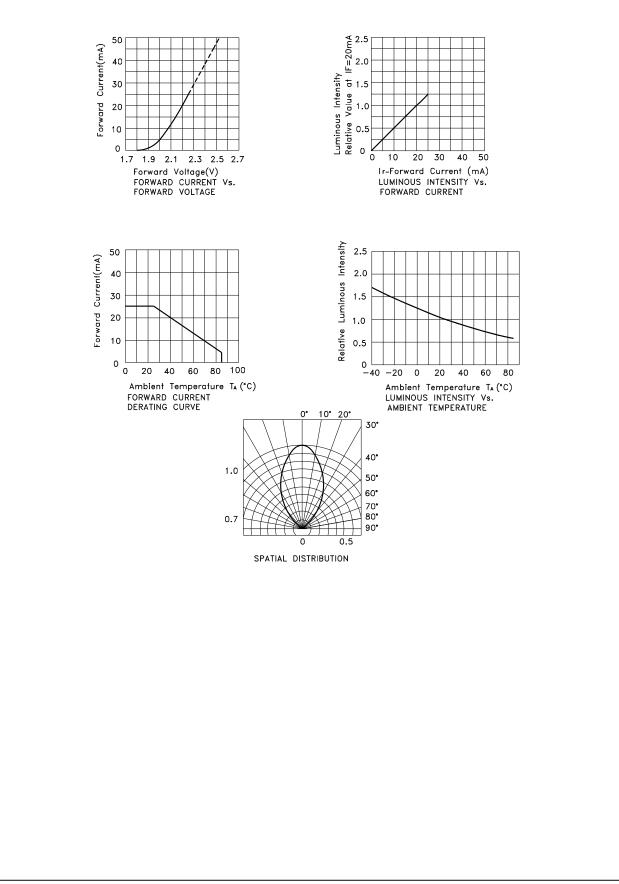
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

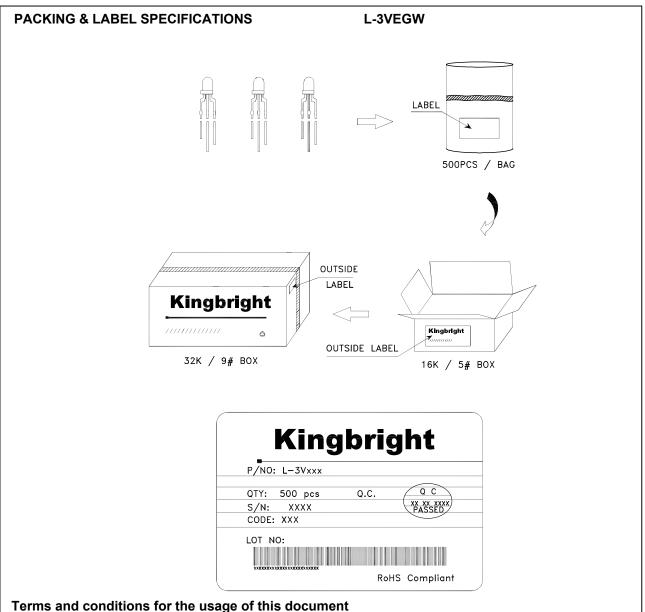
2. 2mm below package base.

3. 5mm below package base.



Green

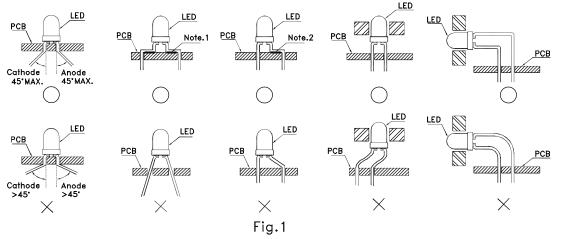




- 1. The information included in this document reflects representative usage scenarios and is intended for technical reference only.
- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer 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

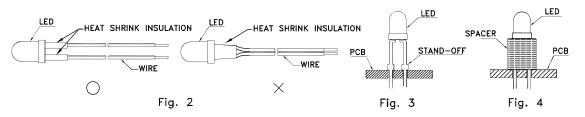
PRECAUTIONS

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)

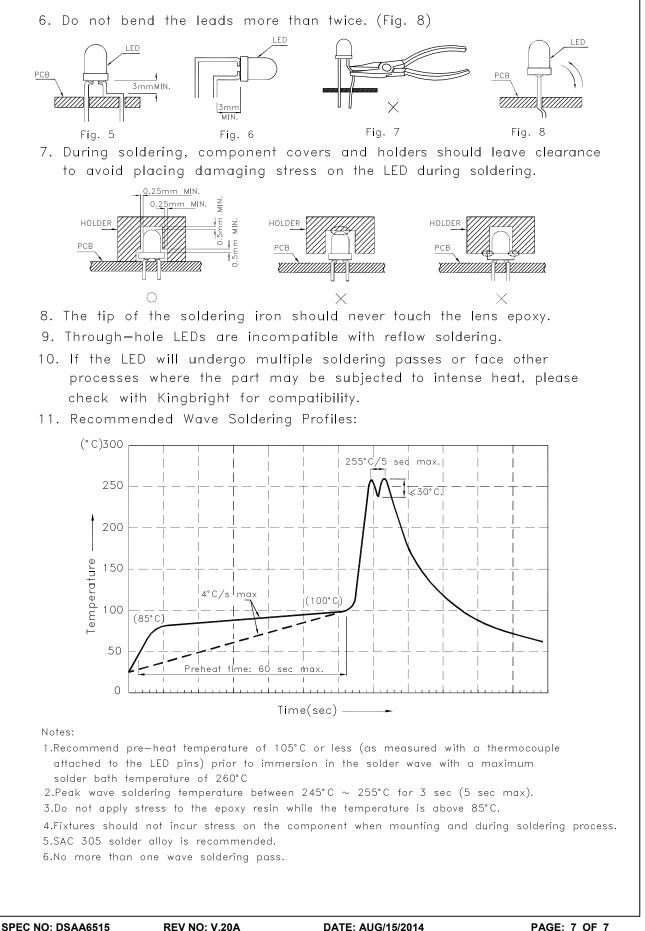


")" Correct mounting method "imes" Incorrect mounting method

- 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)



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for kingbright manufacturer:

Other Similar products are found below :

DLC-6EGW BR-8.24 L-934EW/1GD AA4040PGS PSA05-11GWA BC04-11SYKWA KB-2600ID L53YC13 DLC2-6GD DLC2-6SGD SA40-19GWA CC56-21SRWA WP4060VH/2ID DC10GWA DC-05YWA KA-3535SELZ4S KB-2755SYKW SA56-11GWA DE2CGKD AA4040SF4S-P22 BR9.52 L-1384AL/1ID SA15-11PBWA-A KB-2855SGW BA56-11SYKWA ACSA03-41EWA-F01 L-59GYC WP7113SF4BT-P22 SA03-11PBWA/A SC40-19EWA DA03-11GWA L-934EB/2ID WP132WUM/EGW WP1503CB/GD WP1384AD/GD AA3528AVUACGSK L-964ID KPBD-3224SURKCGKC WP1533BQ/GD SA08-11SURKWA AM2520SYCK09 L-138A8QMP/1ID SA23-12EWA WP934MD/2ID KPHBM-2012ETSGTC KPTR-3216SGC WP4060VH/2GD PDC54-12SRWA WP53MGD DLC-6MBD