

Specification for Approval

- DEVICE NUMBER: BL-C34/2GYW-71K-LC3.2
- CUSTOMER:

SAMPLES ATTACHED AREA

PAGE DATE	1	2	3	4				di	<i></i> >	CONTENTS
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FOR CUSTOMER'S APPROVAL STAMP OR SIGNATURE

APPROVED	PURCHASE	MANUFACTURE	QUALITY	ENGINEERING

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BL-C34/2GYW-71K-LC3.2

Features:

1. Chip material: GaP/GaP (Green)

and GaAsP/GaP(Yellow)

2. Emitted color: Green and Yellow

3. Lens Appearance: White Diffused

4. Designed for ease in circuit board assembly.

5. Black case enhance contrast ratio.

6. Solid state light source.

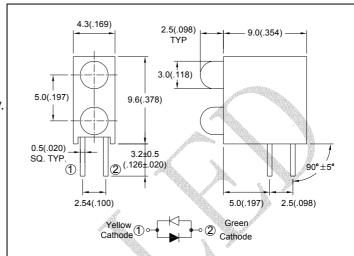
7. Reliable and rugged.

8. This product don't contained restriction substance, compliance RoHS standard.

Applications:

- 1. TV set
- 2. Monitor
- 3. Telephone
- 4. Computer
- 5. Circuit board

Package Dimensions:



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25mm (0.01") unless otherwise specified.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.

■ Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Red	Green	Unit
Power Dissipation	Pd	80	80	mW
Forward Current	I _F	30	30	mA
Peak Forward Current*1	I _{FP}	150	150	mA
Operating Temperature	Topr	-40℃~85℃		
Storage Temperature	Tstg	-40°℃~85°℃		

^{*1}Condition for I_{EP} is pulse of 1/10 duty and 0.1msec width.

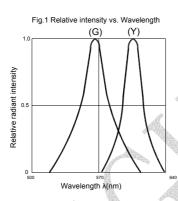


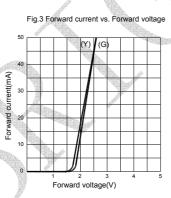
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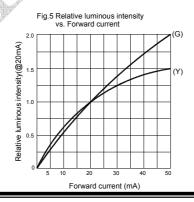
■ Electrical and optical characteristics(Ta=25°C)

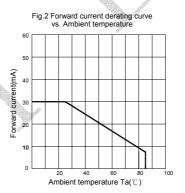
Parameter	Symbol	Condition	Color	Min.	Тур.	Max.	Unit
Forward Voltage	V _F	I _F =20mA	Green Yellow	-	2.2 2.1	2.6 2.6	V
Luminous Intensity	lv	I _F =20mA	Green Yellow	-	10 8	ı	mcd
Reverse Current	I _R	V _R =5V	Green Yellow	-	-	100	μA
Peak Wave Length	λр	I _F =20mA	Green Yellow	-	568 585	-	nm
Dominant Wave Length	λd	I _F =20mA	Green Yellow	564 580	-	574 595	nm
Spectral Line Half-width	Δλ	I _F =20mA	Green Yellow	-	30 35	-	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	Green Yellow	A -	55	_	deg

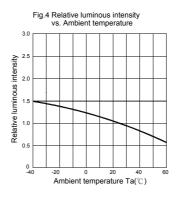
Typical Electro-Optical Characteristics Curves

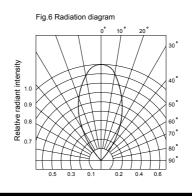














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Reliability Test

Classification	Test Item	Reference Standard	Test Conditions	Result
	Operation Life	MIL-STD-750:1026 MIL-STD-883:1005 JIS-C-7021 :B-1	I_F =20mA Ta =+25 $^{\circ}$ C ±5 $^{\circ}$ C Test time=1,000hrs	0/32
Endurance Test	High Temperature High Humidity Storage	MIL-STD-202:103B JIS-C-7021 :B-11	Ta=+85°C±5°C RH=90%-95% Test time=240hrs	0/32
	High Temperature Storage	MIL-STD-883:1008 JIS-C-7021 :B-10	High Ta=+85°C±5°C Test time=1,000hrs	0/32
	Low Temperature Storage	JIS-C-7021 :B-12	Low Ta=-45°C±5°C Test time=1,000hrs	0/32
	Temperature Cycling	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1010 JIS-C-7021 :A-4	Ta: $+85^{\circ}$ (30min) ~ $+25^{\circ}$ (5min) ~ -45° (30min) ~ $+25^{\circ}$ (5min) Test Time : 70min/cycle 10cycle	0/32
Environmental		MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1011	-45°C±5°C ~+85°C±5°C 20min 20min Test Time=10cycle	0/32
Environmental Test	Solder Resistance	MIL-STD-202:201A MIL-STD-750:2031 JIS-C-7021 :A-1	Preheating : 120℃,within 120-180 sec. Operation heating : 255℃±5℃ within 5 sec.260℃ (Max)	0/32
	Solderability	MIL-STD-202F:208D MIL-STD-750D:2026 MIL-STD-883D:2003 JIS C 7021:A-2	T.sol=230±5°C Dwell Time=5±1secs	0/32

Judgment criteria of failure for the reliability

Measuring items	Symbol	Measuring conditions	Judgment criteria for failure
Forward voltage	V _F (V)	I _F =20mA	Over U ¹ x1.2
Reverse current	I _R (uA)	V _R =5V	Over U ¹ x2
Luminous intensity	lv (mcd)	I _F =20mA	Below S ¹ X0.5

Note: 1. U means the upper limit of specified characteristics. S means initial value.

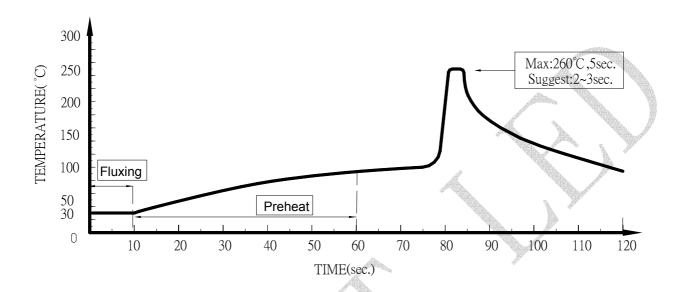
2. Measurment shall be taken between 2 hours and after the test pieces have been returned to normal ambient conditions after completion of each test.

Ver.1.0 Page: 3 of 4



BL-C34/2GYW-71K-LC3.2

Dip Soldering



- Please avoid any external stress applied to the lead-frames and epoxy while the LEDs are at high temperature, especially during soldering
- 2. DIP soldering and hand soldering should not be done more than one time.
- 3. After soldering, avoid the epoxy lens from mechanical shock or vibration until the LEDs are back to room temerature.
- 4. Avoid rapid cooling during temperature ramp-down process
- Although the soldering condition is recommended above,soldering at the lowest possible temperature is feasible for the LEDs

IRON Soldering

A: Max: 350°C Within 3 sec. One time only.

B: For 3mm LED without flange, if the LED epoxy lays flat on the PCB, the welding condition is 350°C within 2 seconds, one time only.

3.0(.118)

PCB

单击下面可查看定价,库存,交付和生命周期等信息

>>BRT(佰鸿工业)