

Specification for Approval

DEVICE NUMBER: BIR-BO03J4G

SAMPLES ATTACHED AREA

										A 4 (18)
PAGE DATE	1	2	3	4	5			A	<i></i>	CONTENTS
2015/7/8	1.0	1.0	1.0	1.0	1.0			1		Initial Released
						10				
				A	- 14					

FOR CUSTOMER'S APPROVAL STAMP OR SIGNATURE

APPROVED	PURCHASE	MANUFACTURE	QUALITY	ENGINEERING

佰鴻工業股份有限公司 BRIGHT LED ELECTRONICS CORP. 新北市板橋區和平路 19 號 3 樓 3F., No.19, He Ping Road, Ban Qiao Dist., New Taipei City, Taiwan

Tel: +886-2-29591090

Fax: +886-2-29547006/29558809

www.brtled.com

ISSUED	APPROVED	PREPARED		
張	郭	臭		
2015.07.08	2015.07.08	2015.07.08		
孝 嚴	初 榮	銳 明		



BIR-BO03J4G

END-LOOK PACKAGE LIGHT EMITTING DIODE

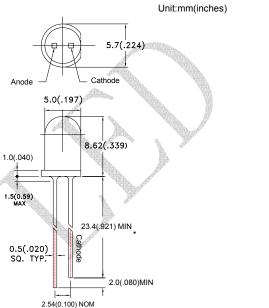
Features:

- 1. High radiant power and high radiant intensity.
- 2. Standard T-1 3/4(5mm)package.
- 3. Peak wavelength λp=850nm.
- 4. Good spectral matching to si-photodetector.
- 5. Radiant angle: 20°
- 6. Lens Appearance: Water Clear.
- 7. This product doesn't contain restriction substance, comply ROHS standard

Applications:

- 1. Remote Control.
- 2. Automatic Control System.

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℃)

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	180	mW
Forward Current	l _F	100	mA
Peak Forward Current *1	I _{FP}	1.0	А
Reverse Voltage	V_R	5	V
Operating Temperature	Topr	-40℃~85℃	-
Storage Temperature	Tstg	-45°℃~85°℃	-

^{*1 (300}pps 10us pulse)

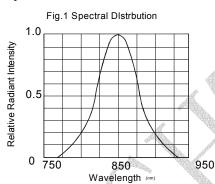


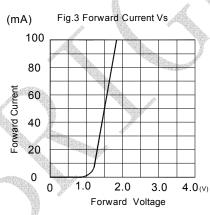
BIR-BO03J4G

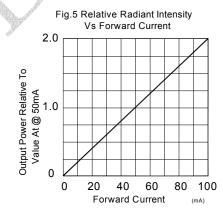
Optical- Electrical Characteristics (@T_A=25℃)

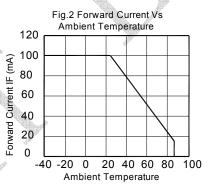
Parameter	Symbol	Test Conditions	Min	TYP	Max	Unit
Radiant Intensity	le	I _F =50mA	53.31	115	-	mW/sr
Forward Voltage	V _F	I _F =50mA	-	1.5	1.8	V
Reverse Current	I _R	V _R =5V	-	-	100	μA
Peak Wavelength	λр	I _F =50mA	-	850	-	nm
Spectral Line Half- Width	Δλ	I _F =50mA	-	50	-	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	- /	20	-	deg

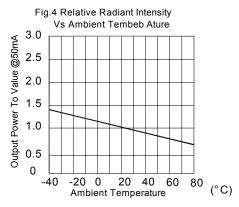
Typical Optical-Electrical Characteristic Curves

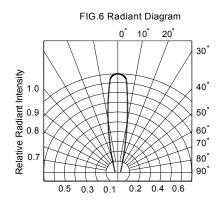






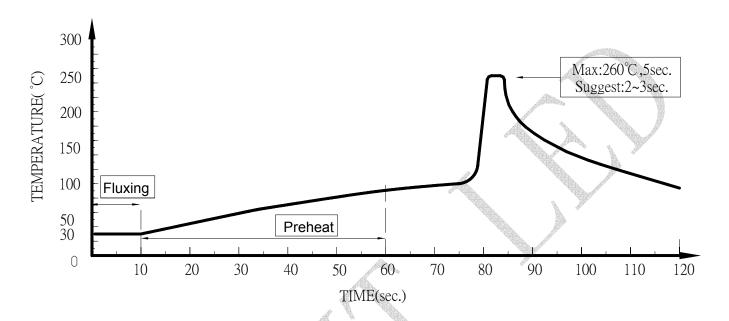






BIR-BO03J4G

Dip Soldering



- 1. 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
- 5. Although the soldering condition is recommended above, soldering at the lowest possible temperature is feasible for the LEDs

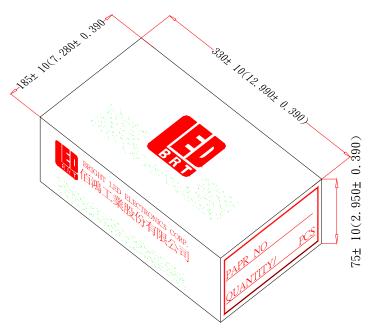
IRON Soldering

300°C Within 3 sec., One time only.

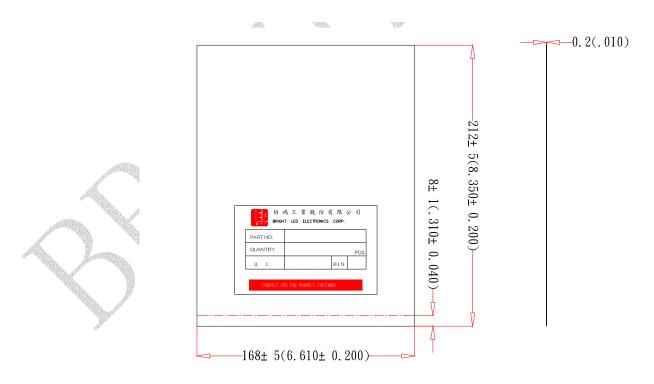


BIR-BO03J4G

Tapping and packaging specifications(Units: mm)



Packaging Bag Dimensions



Notes:

- 1 . 500pcs per bag, 5Kpcs per box.
- 2 · All dimensions are in millimeters(inches).
- 3 · Specifications are subject to change without notice.



BIR-BO03J4G

Infrared Emitting Diode Specification

●Commodity: Infrared emitting diode

•Intensity Bin Limits (At 50mA)

BIN CODE	Min.(mW/sr)	Max.((mW/sr)
16P	53.31	74.63
17Q	74.63	104.48
18R	104.48	146.27
198	146.27	204.27
20T	204.27	286.07

NOTES: Tolerance of measurement of Radiant Intensity

:±15%