



Specification for Approval

- DEVICE NUMBER: BIR-CO1336M

**SAMPLES
ATTACHED AREA**

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2015/2/12	1.0	1.0	1.0	1.0	1.0	Initial Released

FOR CUSTOMER'S APPROVAL STAMP OR SIGNATURE

APPROVED	PURCHASE	MANUFACTURE	QUALITY	ENGINEERING

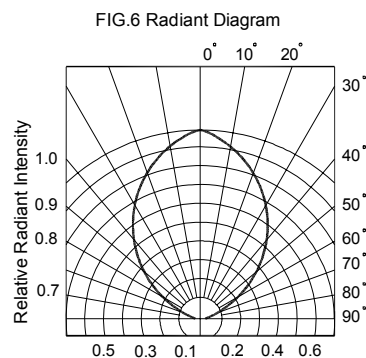
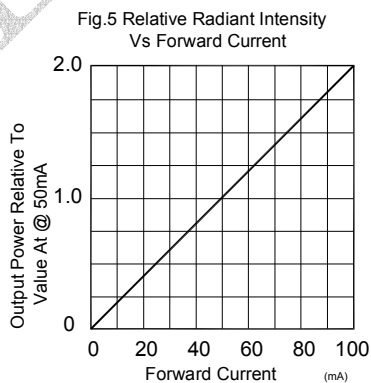
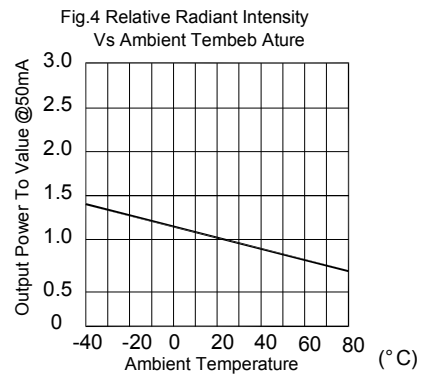
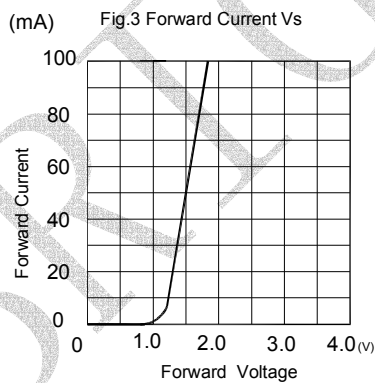
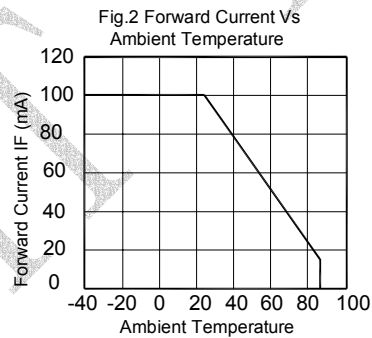
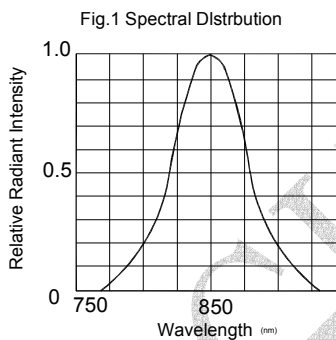
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ISSUED	APPROVED	PREPARED

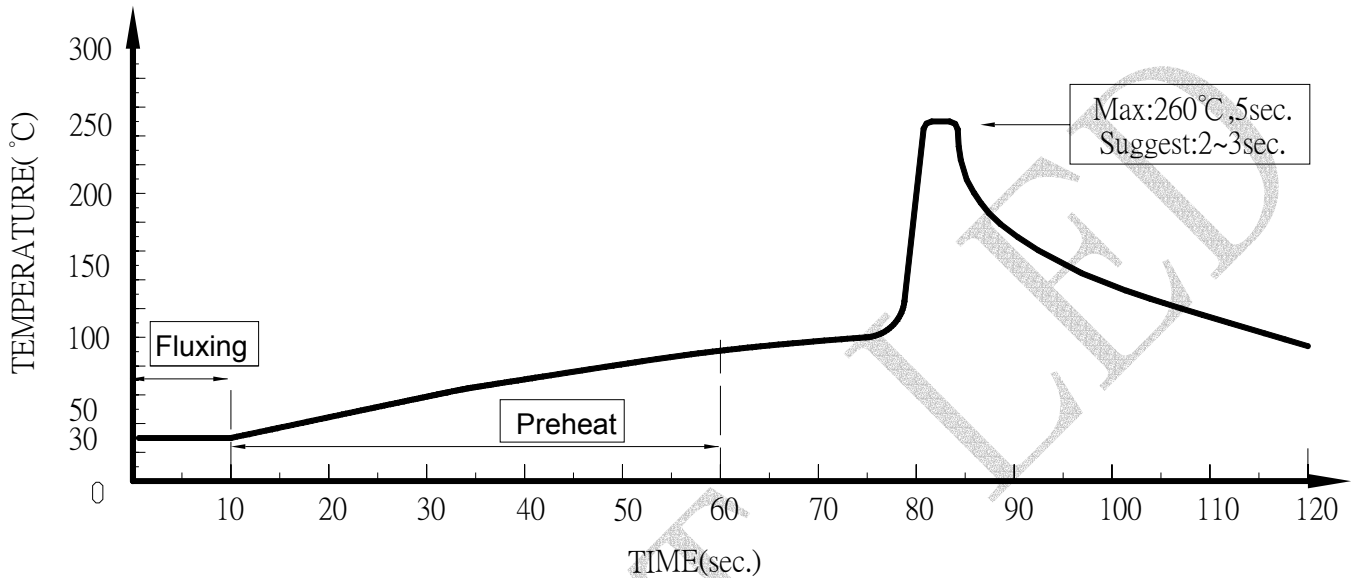
● **Optical- Electrical Characteristics (@ $T_A=25^{\circ}C$)**

Parameter	Symbol	Test Conditions	Min	TYP	Max	Unit
Radiant Intensity	I_e	$I_F=50mA$	3.60	9.0	-	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	λ_p	$I_F=50mA$	-	850	-	nm
Spectral Line Half- Width	$\Delta \lambda$	$I_F=50mA$	-	50	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20mA$	-	85	-	deg

● **Typical Optical-Electrical Characteristic Curves**



● Dip Soldering

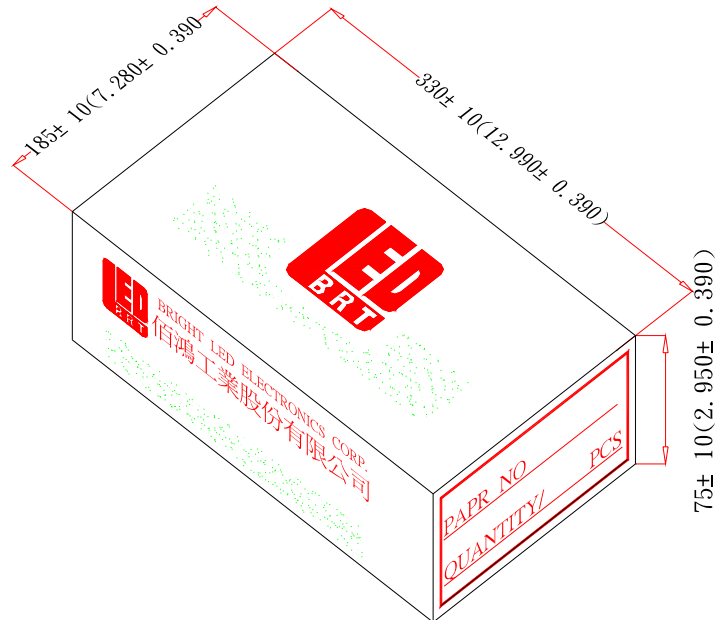


1. Please avoid any external stress applied to the lead-frames and epoxy while the LEDs are at high temperature, especially during soldering
2. DIP soldering and hand soldering should not be done more than one time.
3. After soldering, avoid the epoxy lens from mechanical shock or vibration until the LEDs are back to room temperature.
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

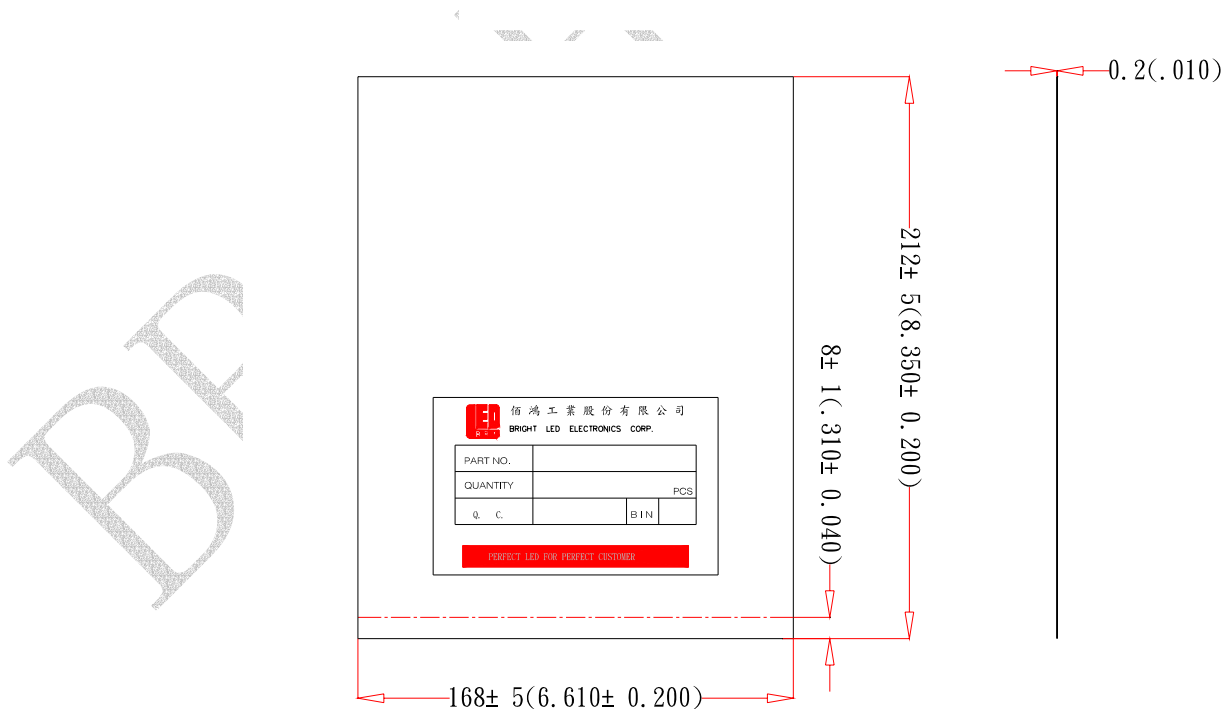
● IRON Soldering

300°C Within 3 sec., One time only.

● 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.



Infrared Emitting Diode Specification

(Commodity: Infrared emitting diode)

(Intensity Bin Limits (At 50mA))

BIN CODE	Min.(mW/sr)	Max.(mW/sr)
8H	3.60	5.05
9I	5.05	7.07
10J	7.07	9.90
11K	9.90	13.81
12L	13.81	19.42

NOTES: Tolerance of measurement of Radiant Intensity : $\pm 15\%$