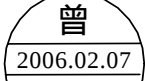
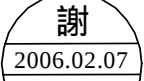




● **DEVICE NUMBER : BWL-3A3W01-F1-LS2**

佰鴻工業股份有限公司
BRIGHT LED ELECTRONICS CORP.
台北縣板橋市和平路 19 號 3 樓
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Taipei, Taiwan, R. O. C.
Tel: 886-2-29591090
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www.brtled.com

APPROVED	DRAWER
	

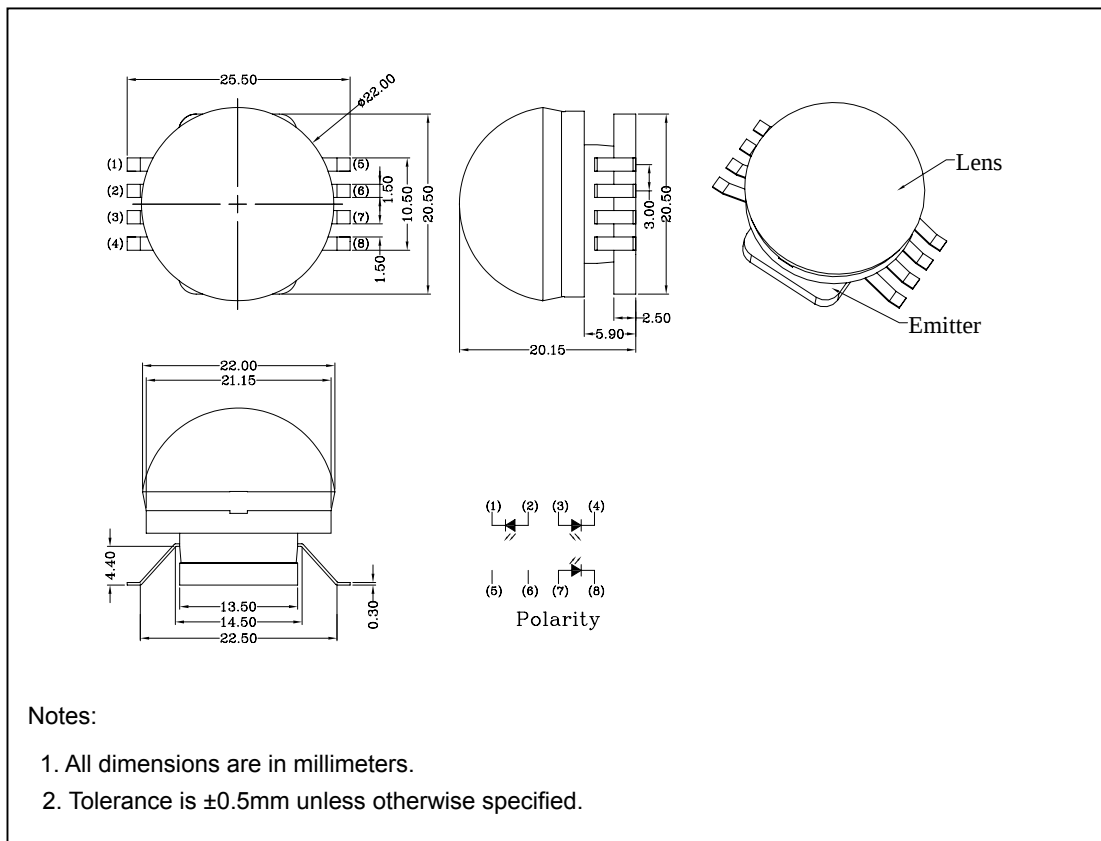
● Features:

1. Input power: 3W.
 2. Chip material: InGaN, Flip chip.
 3. Emitted color: Warm white.
 4. High lumen output.
 5. High flux density.
 6. Low power consumption.
 7. Efficient heat transfer.
 8. Add extra heat sink is necessary.
- * Must increasing heatsink, let the unit temperature below 60 °C.

● Applications:

1. Desk Light.
2. Architectural Lighting.
3. LCD Backlight.
4. Special Area Lighting.

● Package dimensions :



● Absolute maximum ratings ($T_J=25^{\circ}\text{C}$)

Parameter	Symbol	Rating	Unit
Power Dissipation	P_D	3.0	W
DC Forward Current* ¹	I_F	350	mA
Peak Pulsed Forward Current* ²	I_{FP}	1.0	A
LED Junction Temperature	T_J	130	
Operating Temperature	T_{opr}	-30~100	
Storage Temperature	T_{stg}	-40~120	
Reverse Voltage	V_R	5	V
Soldering Temperature (T=5 sec)	T_{sol}	300 ± 5	

*¹Proper current derating must be followed to keep LED junction temperature (T_J) below the maximum.

*²Condition for I_{FP} is pulsed with 1/10 duty and 0.1msec width.

● Electrical & Optical Characteristics ($T_J=25^{\circ}\text{C}$)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 350\text{mA}$	-	3.5	4.0	V
Total Flux	Φ_v	$I_F = 350\text{mA}$	60	75	-	lm
Color Temperature	CCT	$I_F = 350\text{mA}$	2800	3300	3800	K
Reverse Current	I_R	$V_R = 5\text{V}$	-	-	50	μA
Thermal Resistance, Junction To Case*	$R_{\theta_{J-C}}$	$I_F = 350\text{mA}$	-	6	-	$^{\circ}\text{C}/\text{W}$
Viewing Angle	$2\theta_{1/2}$	$I_F = 350\text{mA}$	-	60	-	degree
Chromaticity -Coordinates	x	$I_F = 350\text{mA}$	-	0.40	-	
	y	$I_F = 350\text{mA}$	-	0.36	-	

* The values are based on 3-dice performance.

Typical electro-optical characteristics curves

Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

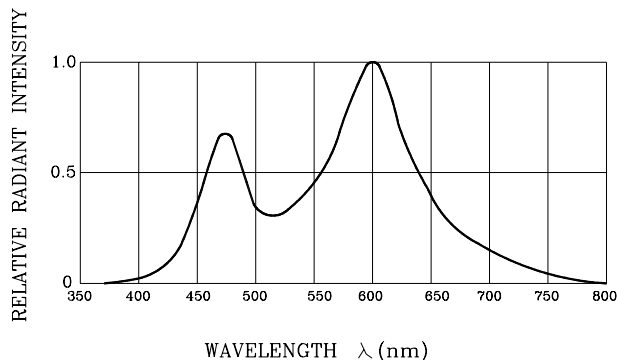


Fig.2 FORWARD CURRENT VS. AMBIENT TEMPERATURE

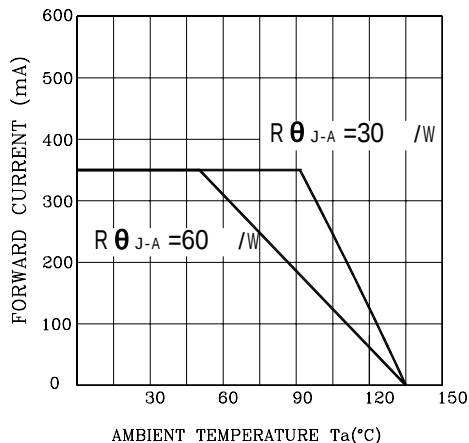


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE

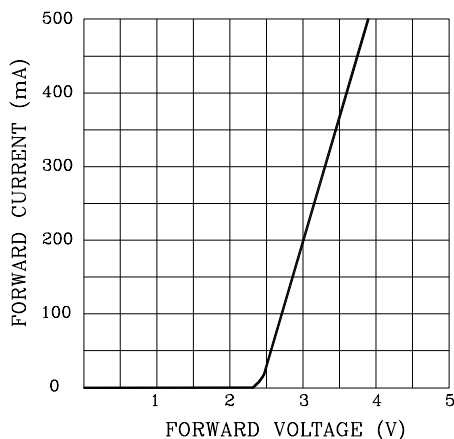


Fig.4 RELATIVE LUMINOUS INTENSITY VS. JUNCTION TEMPERATURE

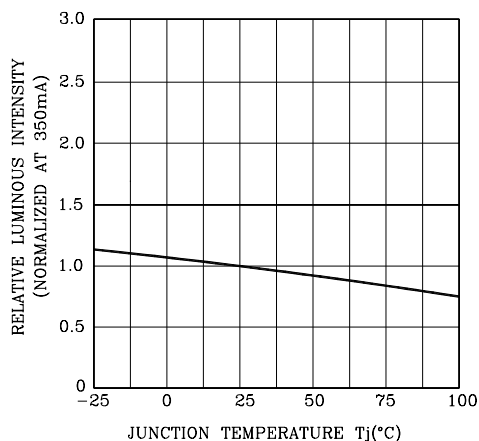


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

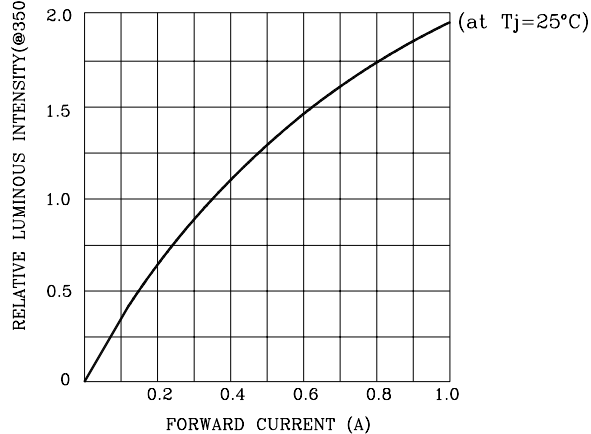
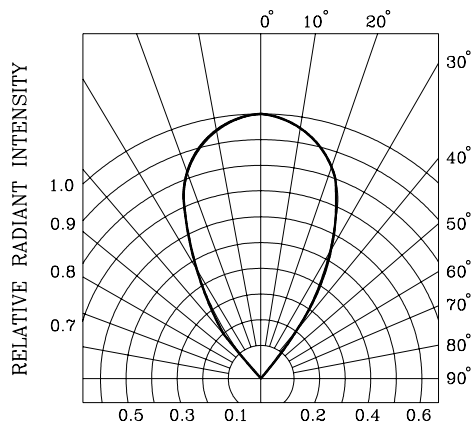
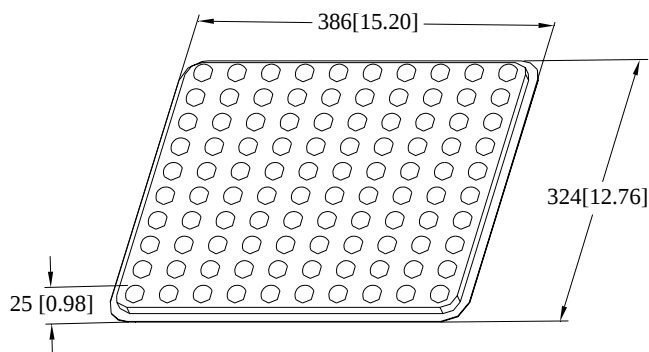
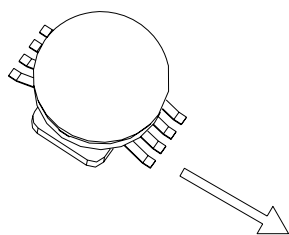


Fig.6 RADIATION DIAGRAM

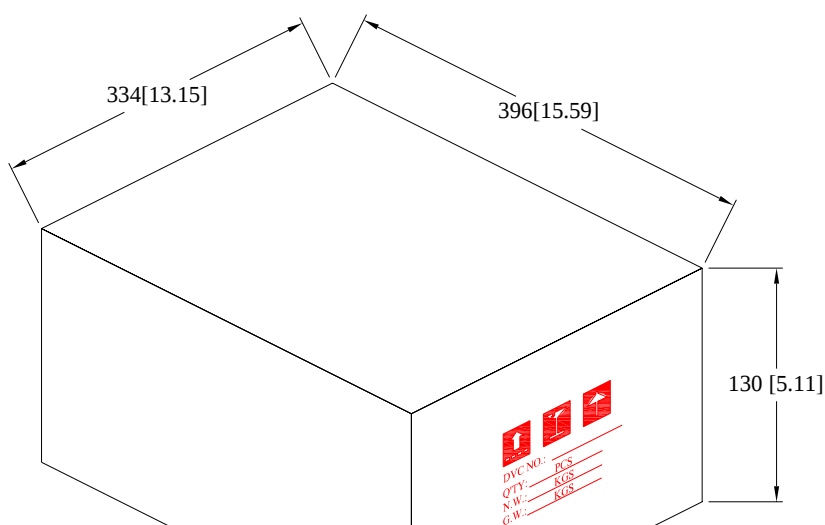


● Package Method : (unit:mm)



Tray

100 pcs/tray



Carton

5 tray / carton

NOTES : Tray : Tolerance is ± 5 mm unless otherwise noted.

Carton : Tolerance is ± 10 mm unless otherwise noted.

● Total Flux Bin Limits (At 350mA)

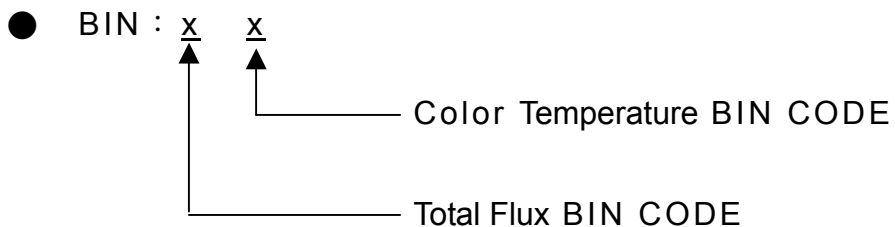
BIN CODE	Min. (lm)	Max. (lm)
N	60	72
P	72	93
Q	93	121

Tolerance for each Bin limit is $\pm 15\%$.

● Color Temperature Bin Limits(At 350mA)

BIN CODE	Min. (K)	Max. (K)
1	2800	3300
2	3300	3800

Tolerance for each Bin limit is $\pm 500K$.



Notes:

1. Bin categories are established for classification of products.
Products may not be available in all bin categories.