BRIGHT LED ELECTRONICS CORP.

SINCE 1981

DATA SHEET

●DEVICE NUMBER: BL-B2339

SHEET / DATE	1	2	3								CONTENTS
2007.03.22.	1.0	1.0	1.0								Original Released

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APPROVED	DRAWER
馬駿	危燕紅

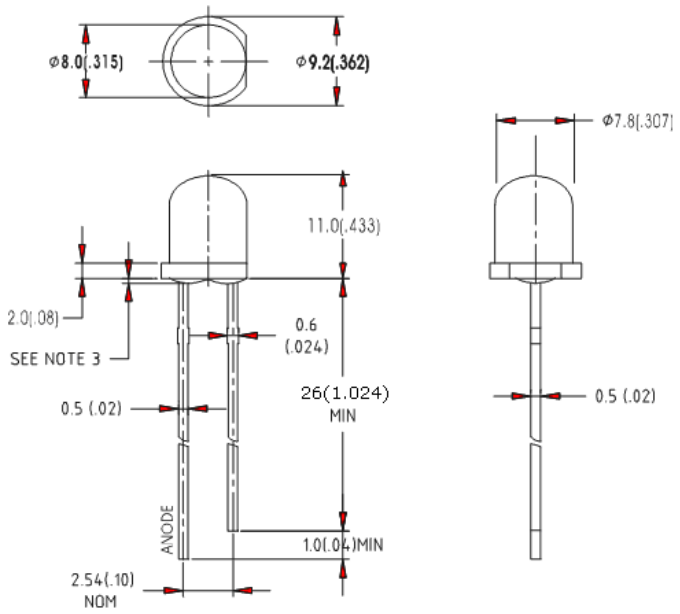
● Features:

1. Chip material: GaP.
2. Emitted color: Yellow Green.
3. Lens appearance: Water Clear.
4. Low power consumption.
5. High efficiency.
6. Versatile mounting on P.C. Board or panel.
7. Low current requirement.
8. This product doesn't contain restriction Substance, comply RoHS standard.

● Applications:

1. TV set.
2. Monitor.
3. Telephone.
4. Computer.
5. Circuit board.
6. Single or dual color graphic signs.
7. Message boards.
8. Variable message signs (VMS).
9. Commercial outdoor advertising.

●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	P_D	60	mW
Forward Current	I_F	25	mA
Peak Forward Current *1	I_{FP}	100	mA
Reverse Voltage	V_R	5	V
Operating Temperature	Topr	-40℃~85℃	
Storage Temperature	Tstg	-40℃~100℃	
Soldering Temperature	Tsol	260℃ max (for 5 seconds)	
Hand Soldering Temperature	Tsol	350℃ max (for 3 seconds)	

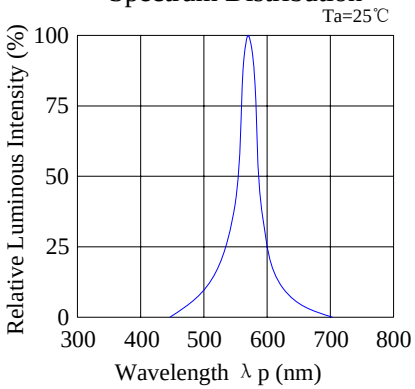
*1Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width.

● Electrical and optical characteristics (Ta=25℃)

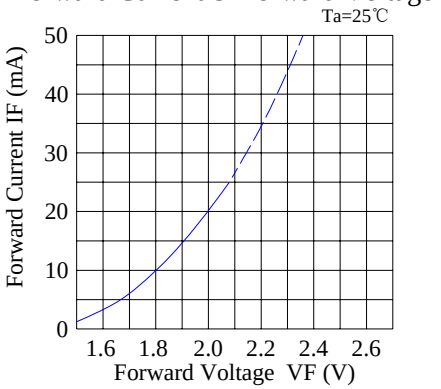
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F=20mA	1.60	2.00	2.40	V
Luminous Intensity	Iv	I_F=20mA	50	120	-	mcd
Peak Emission Wavelength	λp	I_F=20mA	-	565	-	nm
Dominant Wavelength	λd	I_F=20mA	-	570	-	nm
Spectral Line Half-Width	△λ	I_F=20mA	-	30	-	nm
Viewing Angle	$2\theta_{1/2}$	I_F=20mA	-	30	-	degree

● Typical Electro-Optical Characteristics Curves

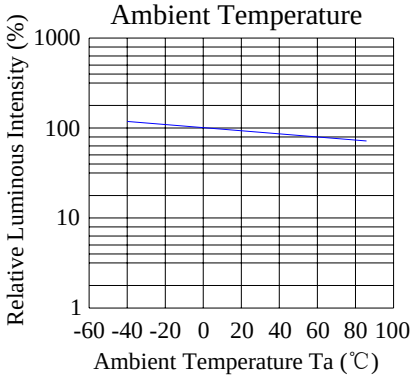
Spectrum Distribution



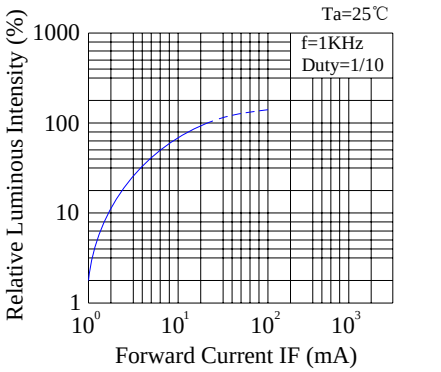
Forward Current & Forward Voltage



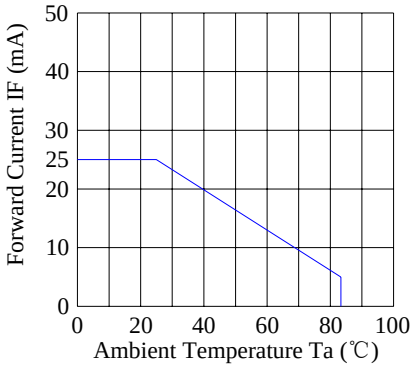
Luminous Intensity & Ambient Temperature



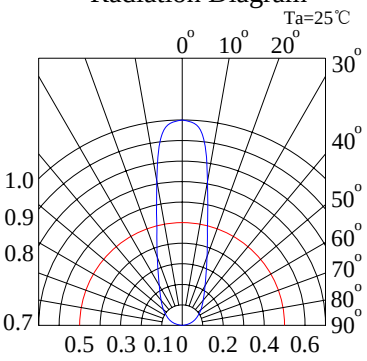
Luminous Intensity & Forward Current



Forward Current Derating Curve



Radiation Diagram



● DIP soldering (Wave Soldering)

Preheating: 120℃, within 120~180sec.
Operation heating: 255℃±5℃ within 5sec 260℃ (Max).
Gradual cooling (Avoid quenching).