



PBL01NBT-C0

LIGHT EMITTING DIODE

BLUE HIGH POWER LED

■ **FEATURES**

- * Very long operating life
- * Energy efficient

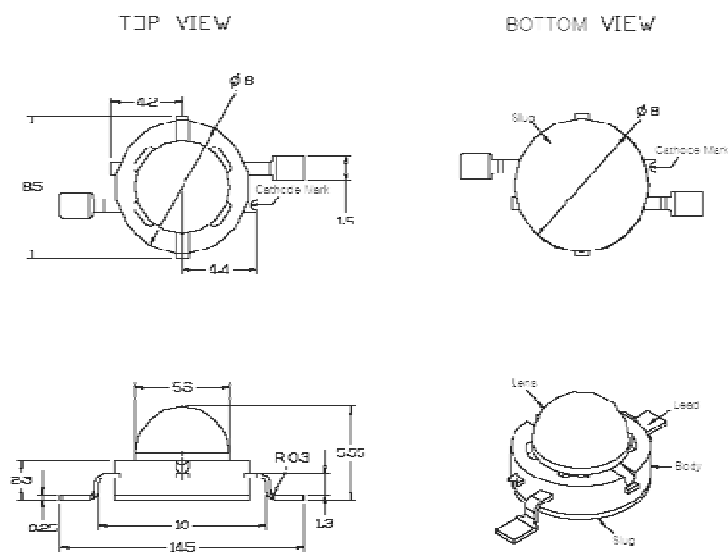
■ **APPLICATIONS**

- * Automotive exterior and interior lighting
- * Architectural lighting
- * Electronic signs and signals

■ **MECHANICAL DIMENSIONS**

Note:Dimensions shown in mm

Dome Type



■ ORDERING INFORMATION

Ordering Number
PBL01NBT-C0

<p>P B L 0 1 N B T - C 0</p> <p>(1)View Angle (2)Lead Frame (3)Lens Type (4)Base Type (5)Watts (6)Color Type (7)Product Type</p>	<p>(1) C0: 120° (2) T: Round (3) B: Helmet (4) N: No Al Base (5) 01: 1w (6) BL: Blue (7) P: Power LED</p>
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■ ABSOLUTE MAXIMUM RATINGS (Ta=25)

PARAMETER	SYMBOL	RATINGS	UNIT
DC Forward Current	I _F	350	mA
Forward Pulse Current (Note1)	I _{FP}	500	mA
Reverse Voltage	V _R	5	V
Viewing Angle	2θ _{1/2}	120	°
Operation Temperature	T _{OPR}	-40 ~ +80	
Storage Temperature	T _{STG}	-40 ~ +80	

Note: 1. Pulse width 0.1msec max. Duty cycle1/10

2. Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

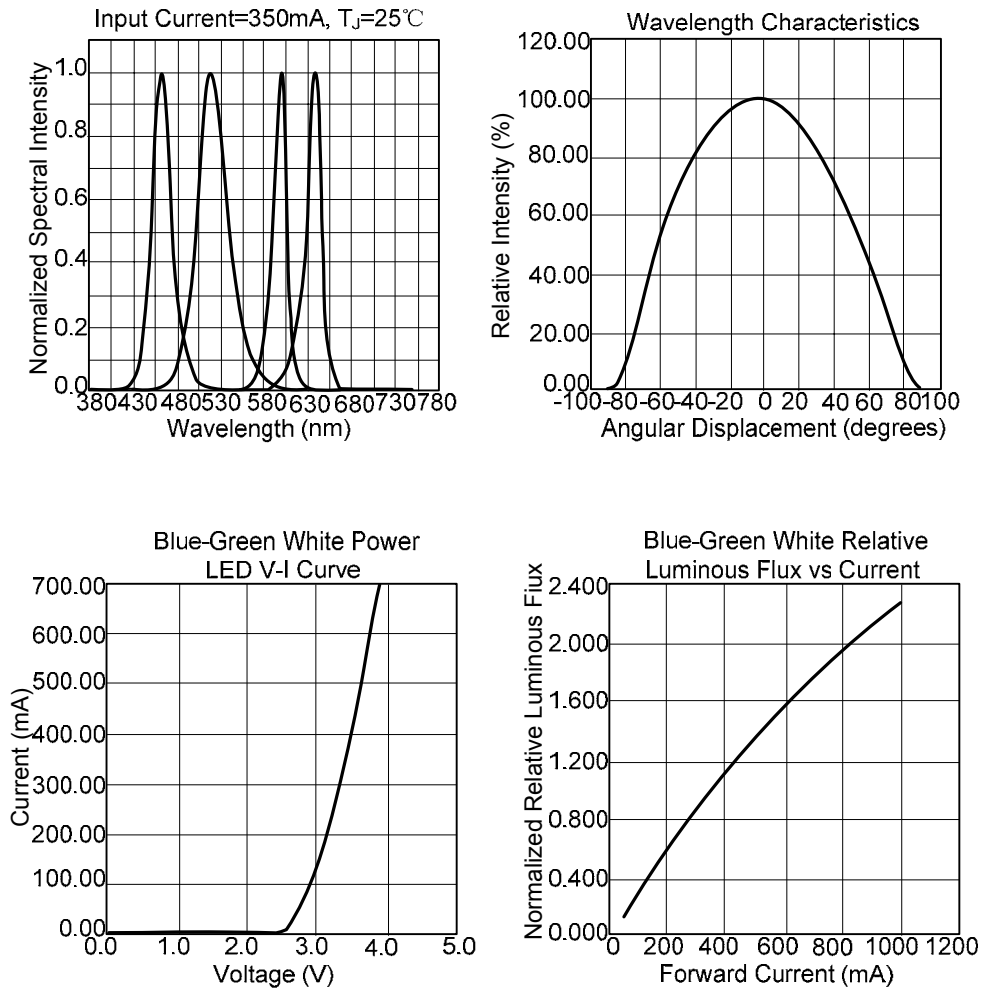
■ ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Luminous Flux	L _x	I _F =350mA	6	8		lm
Forward Voltage	V _F	I _F =350mA	3.1	3.4	3.8	V
Reverse Current	I _R	V _R =5V			10	uA
Dominant Wavelength	λ _D	I _F =350mA	460	465	470	nm
Viewing Angle	2θ _{1/2}	I _F =350mA		120		°

■ RELIABILITY ITEMS AND CONDITIONS

NO.	ITEMS	TEST CONDITIONS	NOTE	RESULT
1	Resistance to Soldering Heat	260 ±5	10Sec.	Pass
2	Thermal Shock	-20 ~ 100 10Min. 5Sec. 10Min.	50Cycles	Pass
3	Temperature Cycle	-40 25 100 30Min. 5Min. 30Min.	100Cycles	Pass
4	Hi-Temp. Storage	100	1000Hrs	Pass
5	Low-Temp. Storage	-40	1000Hrs	Pass
6	Hi-Temperature/ Hi-Humidity Test	60 /90%RH	1000Hrs	Pass
7	Operating Life	I _F =350mA	1000Hrs	Pass
8	Life Time 1	500mA@ROOM TEMP	1000Hrs	Pass
9	Life Time 2	350mA@-40	1000Hrs	Pass
10	ON/OFF Test	IF=700mA Pulse width 0.1msec max. Duty cycle1/10	100,000 Cycles	Pass

TYPICAL CHARACTERISTICS



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