



PPG01NBT-C0

LIGHT EMITTING DIODE

GREEN HIGH POWER LED

■ FEATURES

- * Very long operating life
- * Energy efficient

■ APPLICATIONS

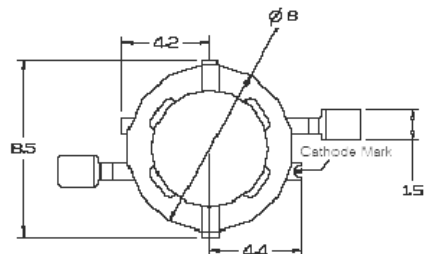
- * Automotive exterior and interior lighting
- * Architectural lighting
- * Electronic signs and signals

■ MECHANICAL DIMENSIONS

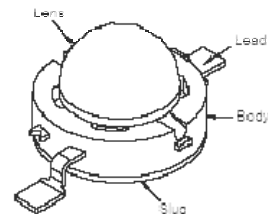
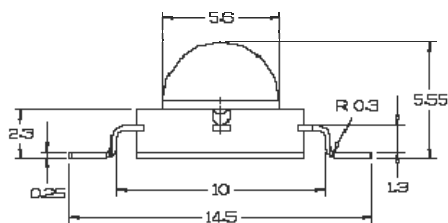
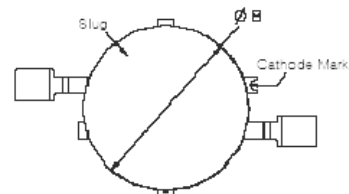
Note: Dimensions shown in mm

Dome Type

TOP VIEW

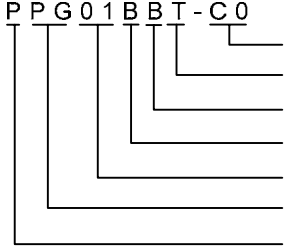


BOTTOM VIEW



■ ORDERING INFORMATION

Ordering Number
PPG01BBT-C0

PPG01BBT-C0  (1)View Angle (2)Lead Frame (3)Lens Type (4)Base Type (5)Watts (6)Color Type (7)Product Type	(1) C0: 120° (2) T: Round (3) B: Helmet (4) B: White Al-Base Silver (5) 01: 1w (6) PG: Pure Green (7) P: Power LED
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■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

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°C ~ +80°C	°C
Storage Temperature	T _{STG}	-40°C ~ +80°C	°C

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.

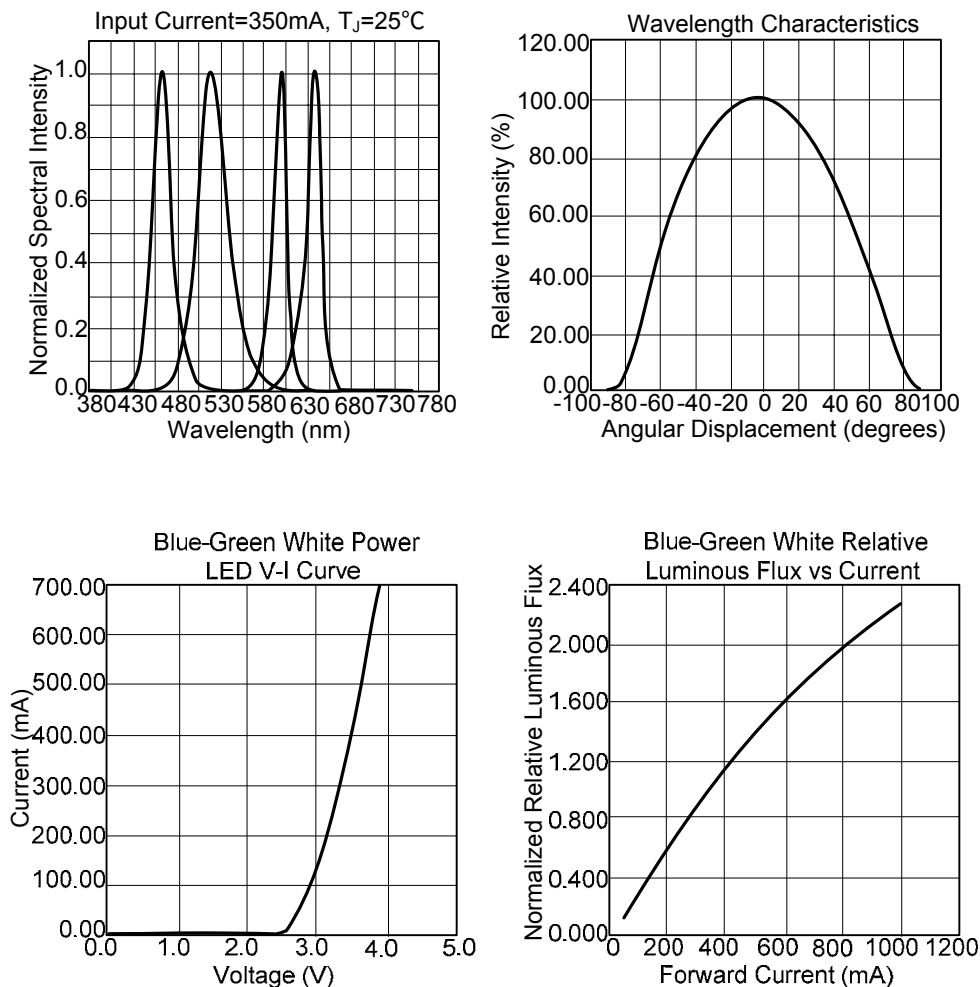
■ ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Luminous Flux	L _x	I _F =350mA	30	35		lm
Forward Voltage	V _F	I _F =350mA	3.0	3.4	3.8	V
Reverse Current	I _R	V _R =5V			10	uA
Dominant Wavelength	λ _D	I _F =350mA	520	525	530	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°C±5°C	10Sec.	Pass
2	Thermal Shock	-20°C ~ 100°C 10Min. 5Sec. 10Min.	50Cycles	Pass
3	Temperature Cycle	-40°C 25°C 100°C 30Min. 5Min. 30Min.	100Cycles	Pass
4	Hi-Temp. Storage	100°C	1000Hrs	Pass
5	Low-Temp. Storage	-40°C	1000Hrs	Pass
6	Hi-Temperature/ Hi-Humidity Test	60°C/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°C	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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