

PRODUCT SPECIFICATION

Part Number
PLBT5E-WCY06-DP1

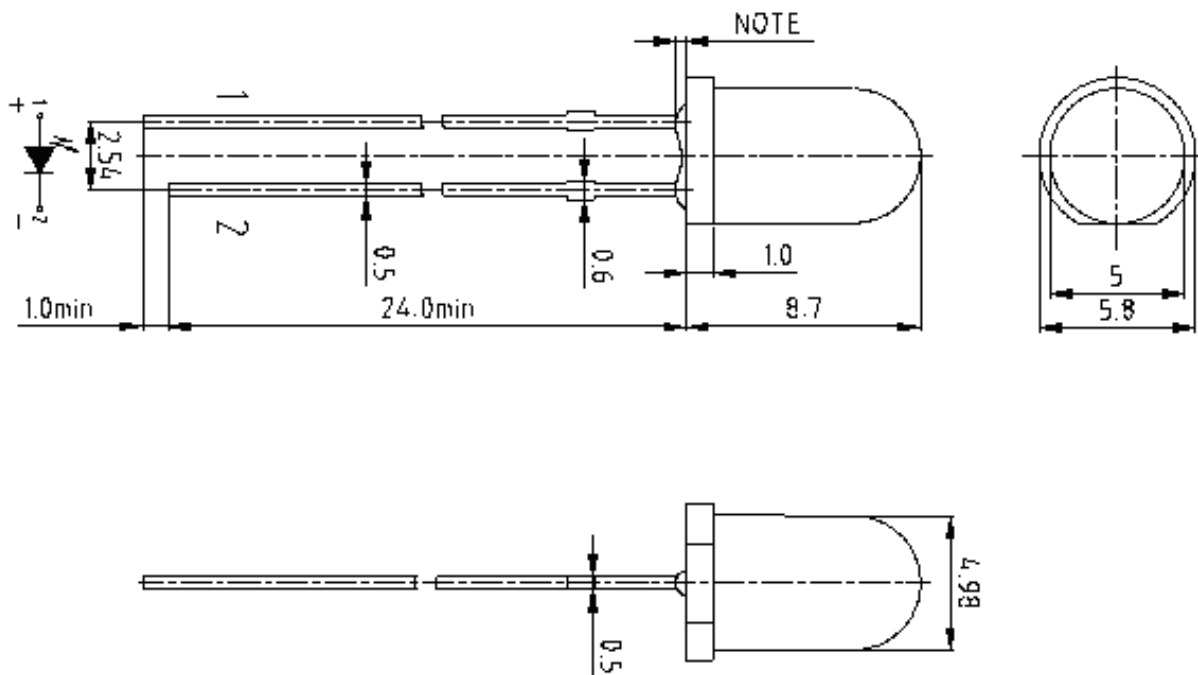
Details

- 5mm (T1 3/4) Round Thru-Hole LED
- Emitting Color: Yellow
- AlInGaP Chip Material Used
- Water Clear Epoxy Resin

Features

- RoHS Compliant
- Low Power Consumption
- High Luminous Output
- Optimal Optical/Mechanical Design

Mechanical Dimensions



Notes:

1. All dimensions are in millimeters unless otherwise noted
2. Tolerance is $\pm 0.25\text{mm}$ unless otherwise noted
3. Dimensions of protruded resin flange: Max: 1.0mm





Device Selection Guide

Part Number	Chip		Lens Type
	Material	Emitting Color	
PLBT5E-WCY06-DP1	AlInGaP	Yellow	Water Clear

Absolute Maximum Ratings at Ta=25 °C

Parameter	Symbol	Rating	Unit
Power Dissipation	P _D	140	mW
Reverse Voltage	V _R	8	V
DC Forward Current	I _F	30	mA
Pulsed Forward Current (Pulse width ≤0.1 msec. duty ≤1/10)	I _{PF}	100	mA
Operating Temperature	T _{opr}	-30~+80	°C
Storage Temperature	T _{stg}	-40~+100	°C
Lead Soldering Temperature	T _{sol.}	Max. 260°C for 5 sec Max.	

Electrical and Optical Characteristics at Ta=25 °C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage	V _F	1.7	1.9	2.4	V	I _F =20mA
Luminous Intensity	I _v	10600	15000	18000	mcd	
Wavelength	λ _d	585	--	595	nm	
Viewing Angle	2θ1/2	--	30	--	--	deg
Reverse Current	I _r	--	--	10	μA	V _R =8V

Notes: 1.Luminous intensity (I_V) ±10%, Forward Voltage (V_F) ±0.1V, Wavelength (λ_d) ±0.05nm

2.IS standard testing

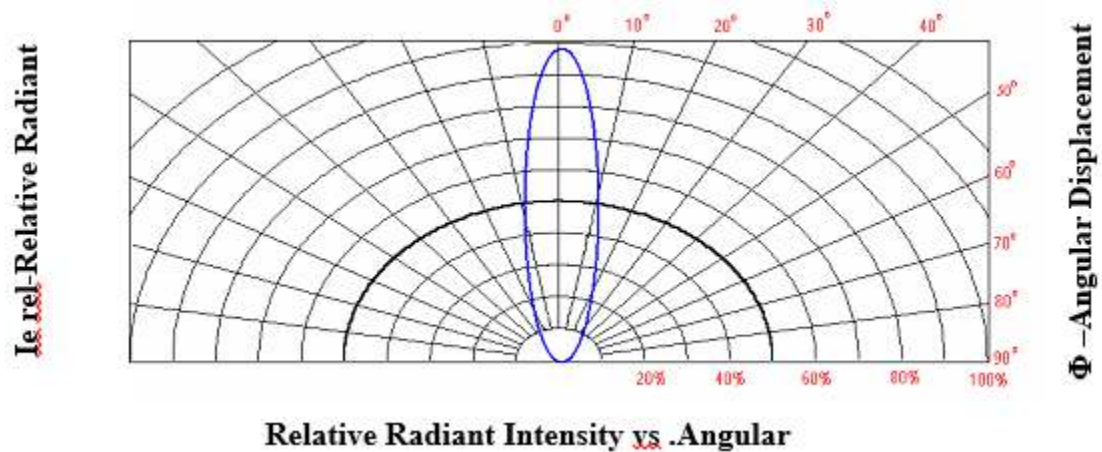
Range of Bins: Luminous Intensity

Bin	Bin0	Bin1	Bin2	Bin3	Bin4	Bin5	Bin6
IV(mcd)	1-3	3-6	6-9	9-13	13-20	20-30	30-45
Bin	Bin7	Bin8	Bin9	Bin10	Bin11	Bin12	Bin13
IV(mcd)	45-70	70-90	90-120	120-160	160-210	210-270	270-350
Bin	Bin14	Bin15	Bin16	Bin17	Bin18	Bin19	Bin20
IV(mcd)	350-460	460-600	600-780	780-1000	1000-1300	1300-1700	1700-2200
Bin	Bin21	Bin22	Bin23	Bin24	Bin25	Bin26	Bin27
IV(mcd)	2200-2800	2800-3700	3700-4900	4900-6300	6300-8200	8200-10600	10600-13800
Bin	Bin28	Bin29	Bin30	Bin31	Bin32	Bin33	
IV(mcd)	13800-18000	18000-23400	23400-30400	30400-39500	39500-51400	51400-66800	

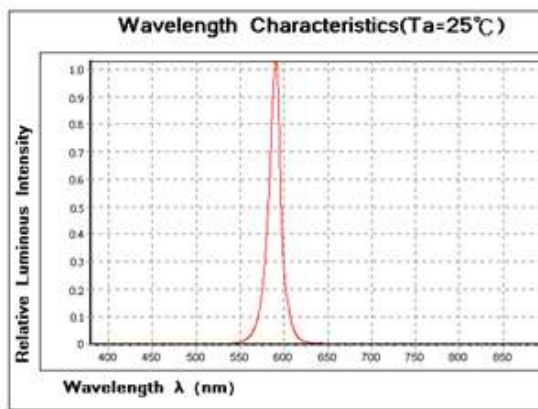
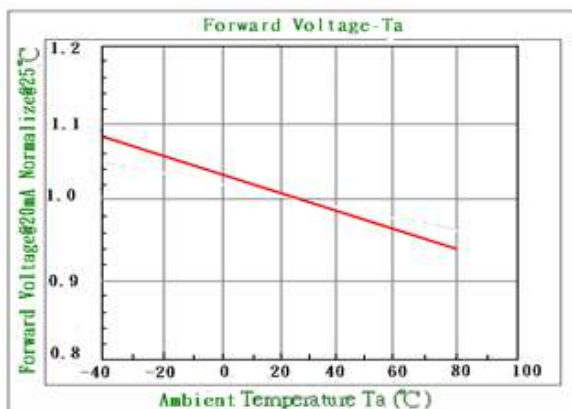
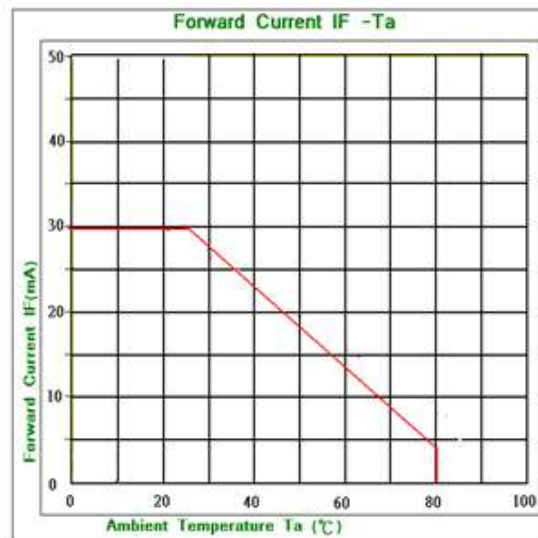
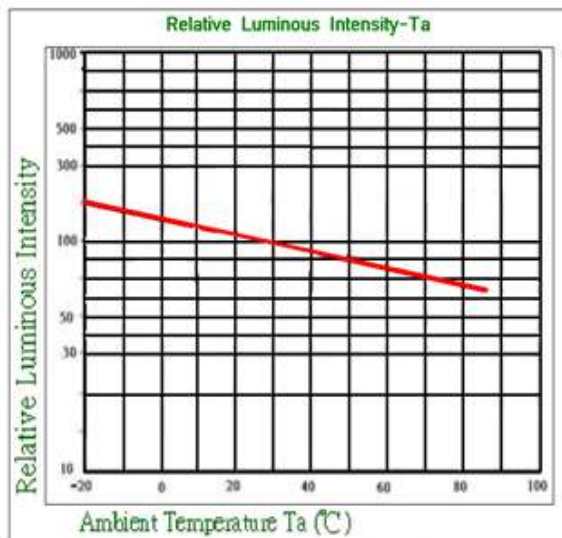
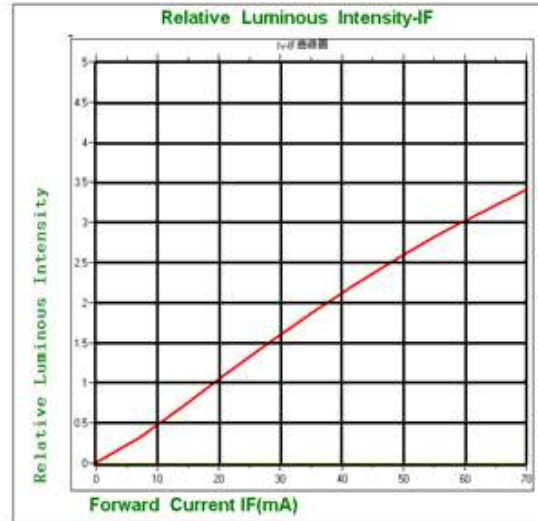
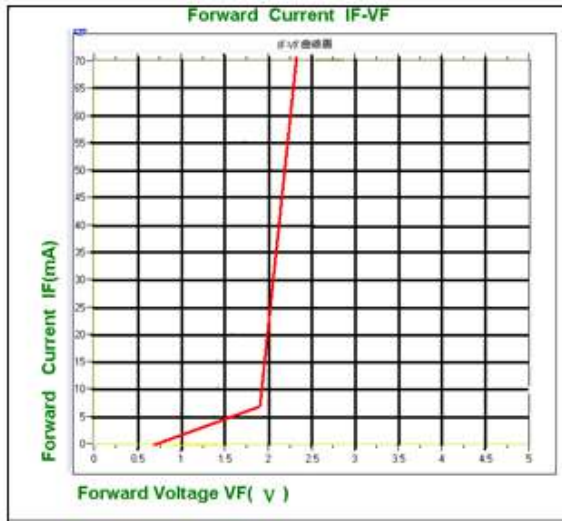
Range of Bins: Wavelength

Bin	C	D	E	F			
λd	586-588	588-590	590-592	592-594			

Relative Radiant Intensity vs. Angular



Typical Electrical / Optical Characteristic Curves





PLBT5E-WCY06-DP1 Customer Approval Signatures	Approved By	Checked By	Notes

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