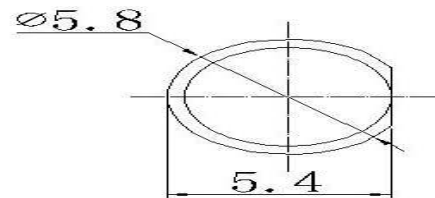
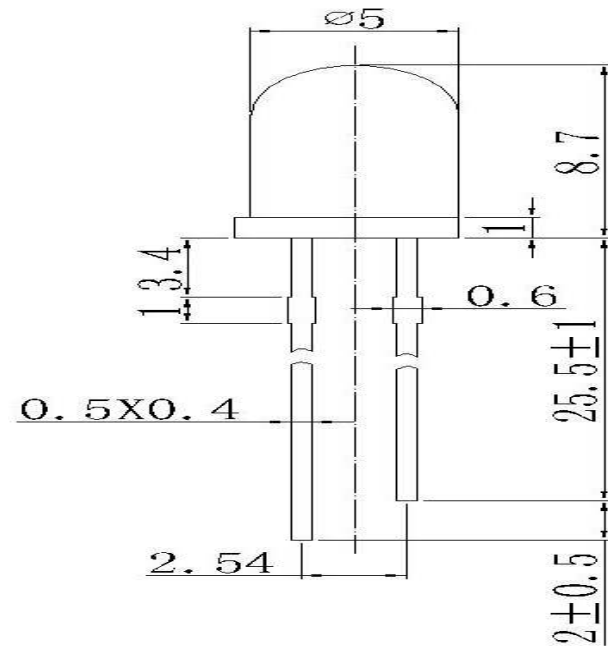




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## Specification for LED Product 5BB4HC

Package Dimensions(mm)



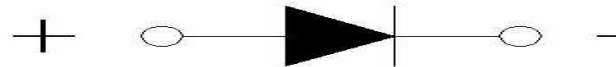
Notes:

All dimension units are millimeters.

All dimension tolerance is  $\pm 0.2$ mm unless otherwise noted.

An epoxy meniscus may extend about 1.5mm down the leads.

Burr around bottom of epoxy may be 0.5mm max.



Synopsis:

5mm Round Type

Water Clear Lens

Blue LED Lamp



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<b>Typ 5BB4HC</b>						
Typical Electrical & Optical Characteristics (Ta = 25°)						
ITEMS	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	VF	IF = 20mA	3	3	3.2	V
Reverse Current	IR	VR = 5V	---	---	1.1	μA
Dominant Wavelength	λD	IF = 20mA	465	---	470	nm
Luminous Intensity	IV	IF = 20mA	8000	---	10000	mcd
50% Power Viewing Angle	2θ½	IF = 20mA	---	13	---	deg
Absolute Maximum Ratings at (Ta = 25□)						
ITEMS	SYMBOL	ABSOLUTE MAXIMUM RATING				UNIT
Forward Current	IF	50				mA
Peak Forward Current	IFP	220				mA
Continuous Forward Current	IL	20				mA
Reverse Voltage	VR	5				V
Power Dissipation	PD	170				mW
Operation Temperature	Topr	-40 ~ +80				°C
Storage Temperature	Tstg	-40 ~ +80				°C
Lead Soldering Temperature	Tsol	Max.260°C for 5 sec Max.				

IFP Conditions Pulse Width 10msec duty 1/10

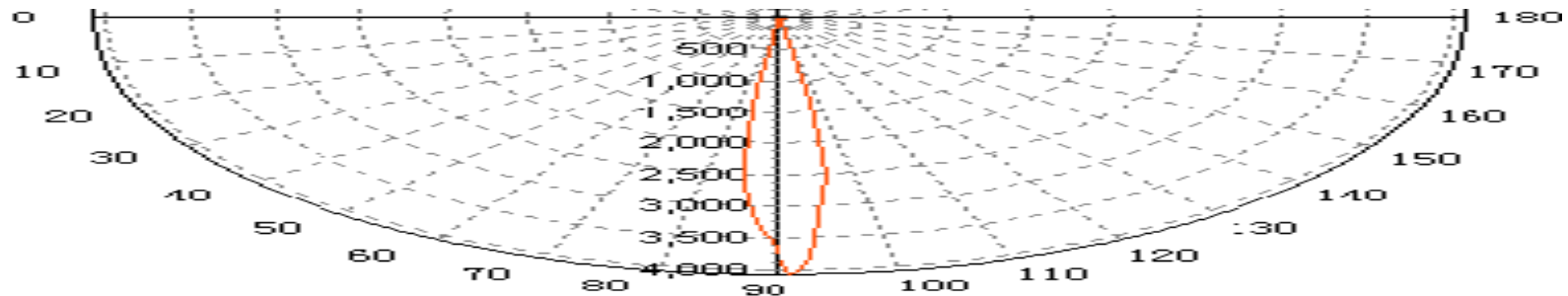
Tsol Conditions 4mm from the base of the epoxy bulb



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### 5BB4HC

Spatial Distribution



Reliability Performance

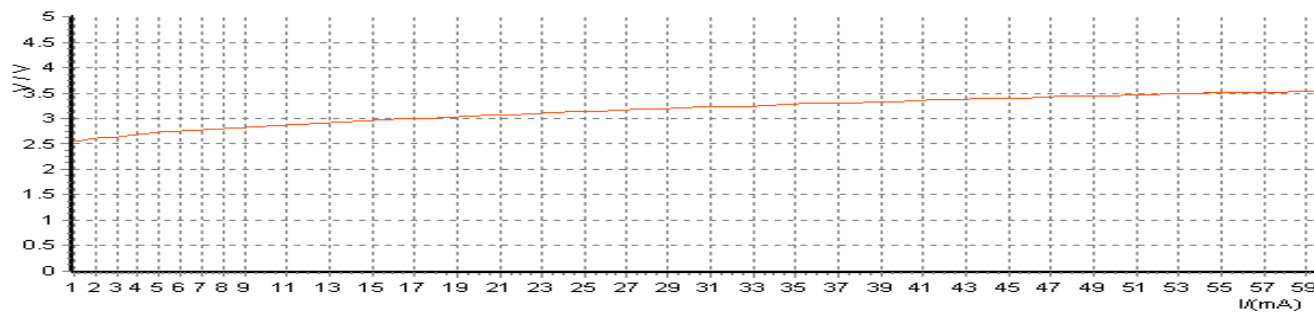
Test Classification	Test Item	Test Conditions	Test Duration	Sample Size	Standard
Life Test	Life Test	Ta=25°±5% / IF=20mA	1000(hrs)	10PCS	
Environment Test	Thermal Shock Test	-10°±5%←→+100°±5% 5min. 10sec. 5min.	100(cycles)	10PCS	
	Temperature Cycle Test	-55°±5%←→+85°±5% 30min. 5min. 30min.	100(cycles)	10PCS	
	High Temperature C High Humidity Test	Ta=85°±5% RH =85%±0.5 %RH	240(hrs)	10PCS	
	High Temperature Storage	Ta=100°±5%	1000(hrs)	10PCS	
	Low Temperature Storage	Ta=-55°±5%	1000(hrs)	10PCS	
Mechanical Test	Resistance to Soldering Heat	Ta=260°±5%	5 (sec.)	10PCS	
	Lead Integrity	0.25 kg 0° ~ 90° ~ 0°	3 (times)	10PCS	



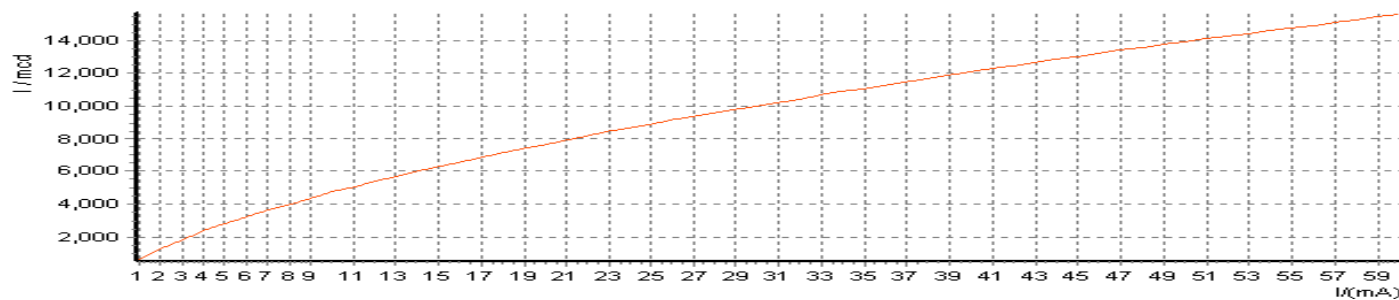
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### 5BB4HC

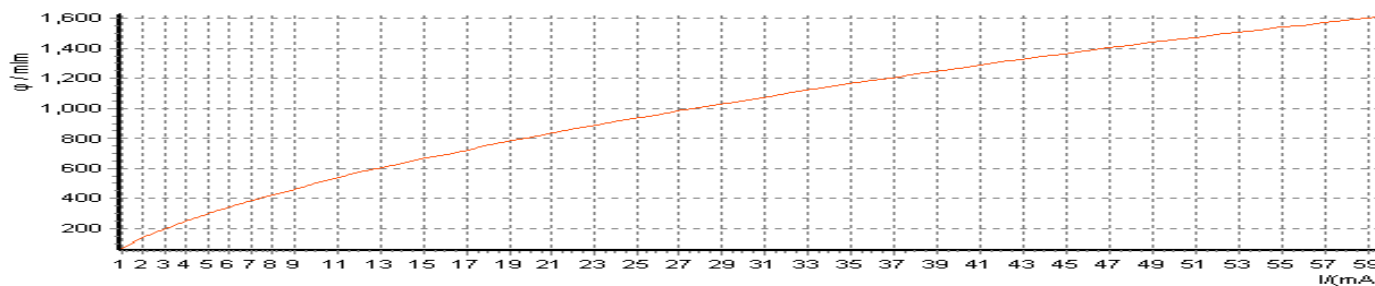
Typical Optical/Electrical Characteristics Curves (Ta=25° Unless Otherwise Noted)



Current-Voltage Curve



Current-Luminous intensity Curve



Current-Luminous flux Curve

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5BB4HC

