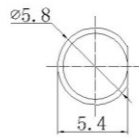
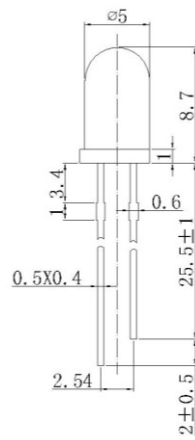


Specification for LED Product

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Package Dimensions(mm)



Notes:

All dimension units are millimeters.

All dimension tolerance is $\pm 0.2\text{mm}$ 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

Red LED Lamp

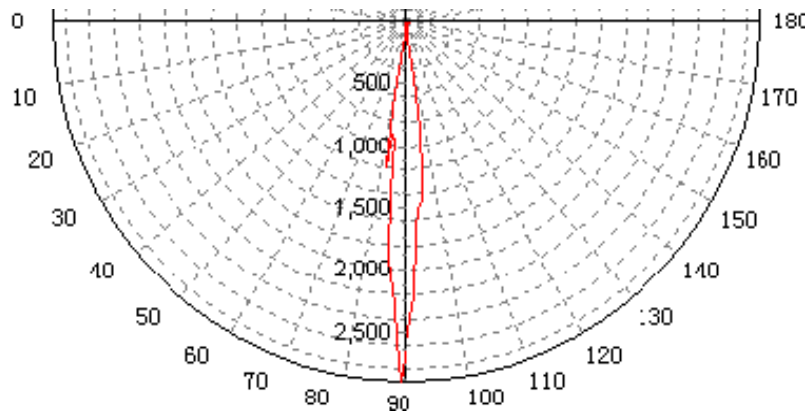
387						
ITEMS	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	VF	IF = 20mA	1,4	1,8	2,5	V
Reverse Current	IR	VR = 5V	---	---	1,1	μA
Dominant Wavelength	λ D	IF = 20mA	620	---	630	nm
Luminous Intensity	IV	IF = 20mA	1627	2075	2666	med
50% Power Viewing Angle	2θ½	IF = 20mA	---	14	---	deg
■ Absolute Maximum Ratings at (Ta = 25°C)						
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	90				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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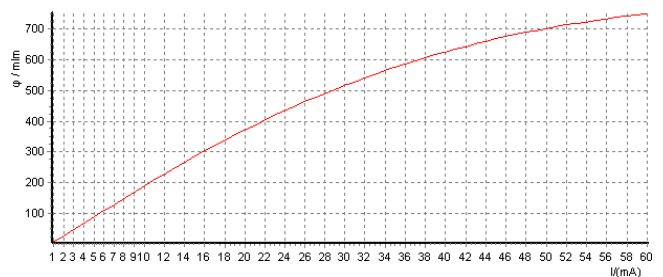
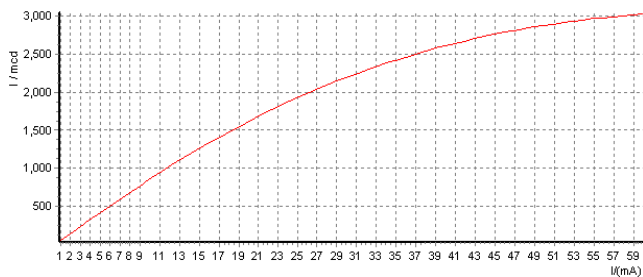
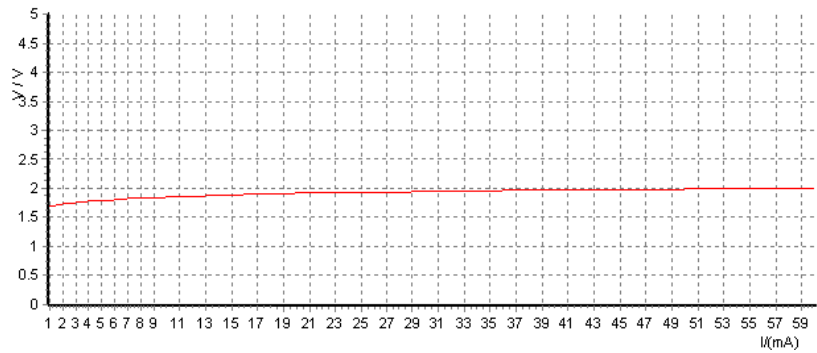
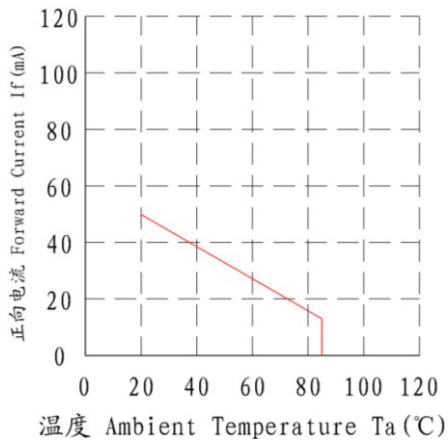
Spatial Distribution



Reliability Performance

Test Classification	Test Item	Test Conditions	Test Duration	Sample Size	Standard
Life Test	Life Test	Ta=25°C±5°C, IF=20mA	1000小时(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 & High Humidity Test	Ta=85°C±5°C RH =85%±0.5 %RH	240(hrs)	10PCS	
	High Temperature Storage	Ta=100°C±5°C	1000(hrs)	10PCS	
	Low Temperature Storage	Ta=-55°C±5°C	1000(hrs)	10PCS	
Mechanical Test	Resistance to Soldering Heat	Ta=260°C±5°C	5 (sec.)	10PCS	
	Lead Integrity	0° ~ 90° ~ 0°	3 (times)	10PCS	

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



Current-Luminous intensity Curve

Current-Luminous flux Curve

