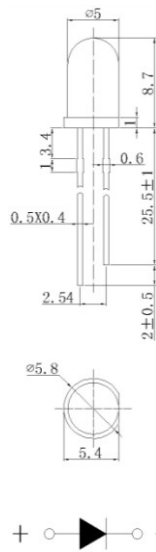


Specification for LED Product

3708

■ Package Dimensions (mm)



Notes:

All dimension units are millimeters.

All dimension tolerance is ± 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
Blue LED Lamp

Water Clear Lens

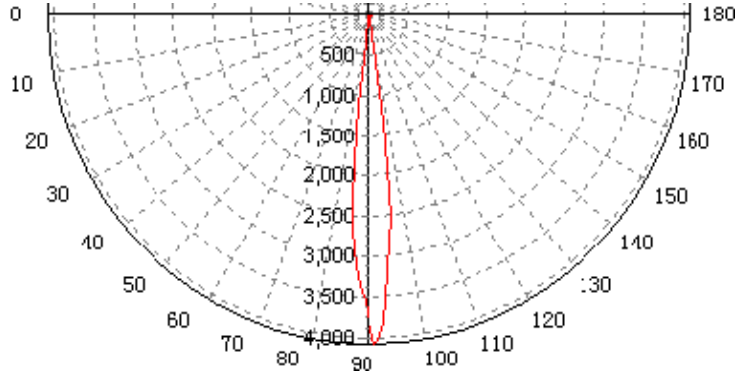
3708							
■ Categorize (Ta = 25°C)							
ITEMS							UNIT
Dominant Wavelength	455-460	460-465	465-470	470-475			nm
Forward Voltage	3.2-3.4	3.0-3.2	3.2-3.4	3.0-3.2			V
Luminous Intensity	4000-6000	4000-6000	10000-12000	8000-10000			mcd
ITEMS	MIN	TYP.	MAX.				UNIT
Reverse Current	---	---	1,1				μA
50% Power Viewing Angle	11	13	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	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

3708

■ Spatial Distribution

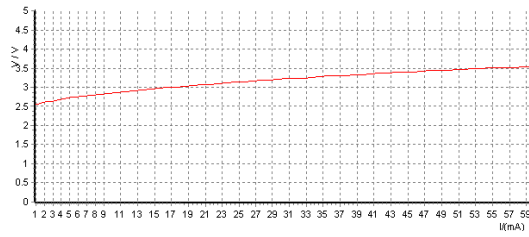
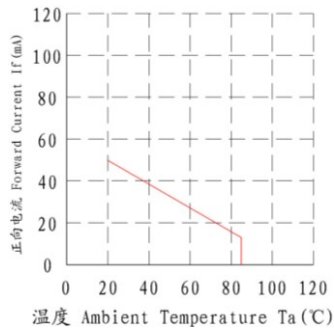


■ Reliability Performance

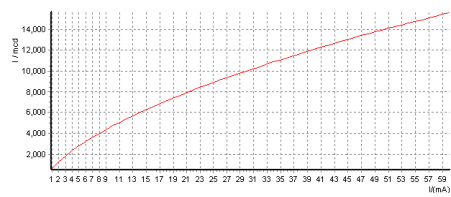
Test Classification	Test Item	Test Conditions	Test Duration	Sample Size	Standard
Life Test	Life Test	Ta=25°C±5°C, IF=20mA	1000(hrs)	10PCS	
Environment Test	Thermal Shock Test	-10 ±5 ↔+100 ±5 5min. 10sec. 5min.	100(cycles)	10PCS	
	Temperature Cycle Test	-55 ±5 ↔+85 ±5 30min. 5min. 30min.	100(cycles)	10PCS	
	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	

3708

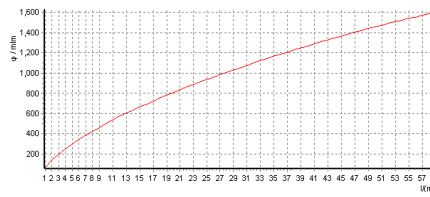
Typical Optical/Electrical Characteristics Curves (Ta=25°C Unless Otherwise Noted)



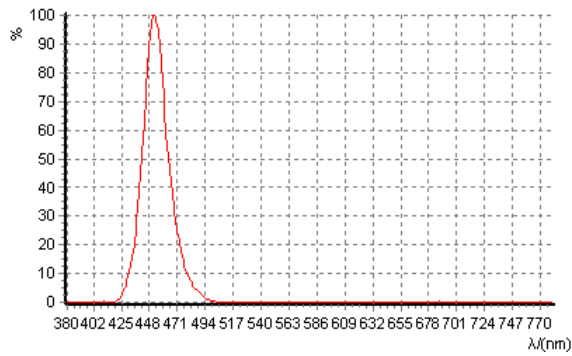
Current-Voltage Curve



Current-Luminous intensity Curve

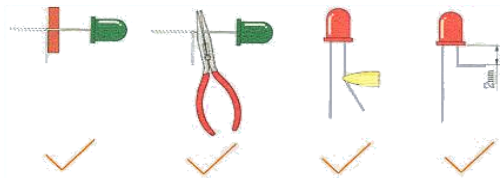


Current-Luminous flux Curve

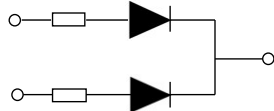


Relative Spectral Distribution Curve

3708



Circuit model A



Circuit model B

