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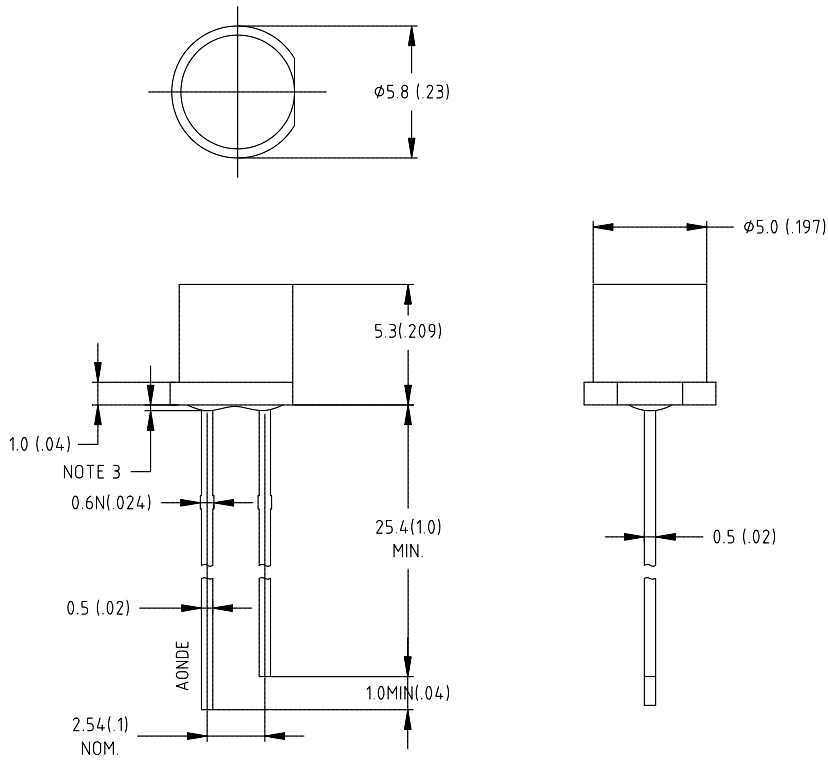
Data Sheet

REVISION	02
ISSUE DATE	2008/11/10
APPROVAL BY	JASON
PREPARED BY	LUOFAXING

Features:

1. Low power consumption
2. High efficiency
3. Reliable and rugged
4. Chip Material: AlGaInP
5. Lens Color: water clear
6. Source Color: Orange Red

Outline Dimensions:



Note :

1. All dimensions are in millimeters (inches)
2. Tolerance is $\pm 0.25\text{mm} (.010\text{'})$ unless otherwise noted
3. Specifications are subject to change without notices.

Absolute Maximum Ratings at Ta=25°C :

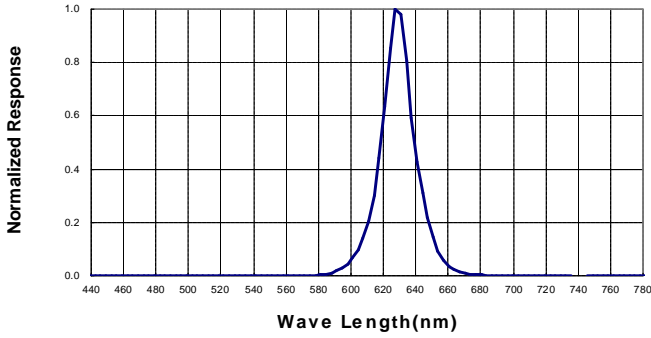
Parameter	Maximum	Unit
Power Dissipation	75	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	30	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-20°C to +80°C	
Storage Temperature Range	-30°C to +85°C	
Lead Soldering Temperature [1.6mm(0.63") from body]	260°C for 5 Seconds	

Electrical/Optical Characteristics at Ta=25°C :

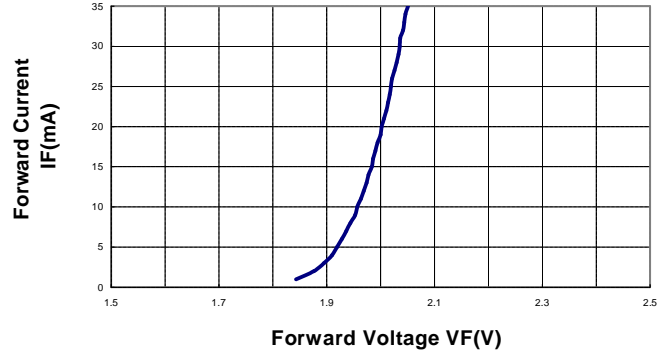
Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	I _v	I _F =20mA		100		mcd
Dominant Wavelength	λ _d	I _F =20mA	625	630	635	nm
Viewing Angle	2θ 1/2	I _F =20mA		100		deg
Forward Voltage	V _F	I _F =20mA	1.8	2.0	2.5	V
Reverse Current	I _R	V _R =5V			10	uA

Typical Electrical/Optical Characteristics Curve: (25°C Ambient Temperature Unless Otherwise Noted)

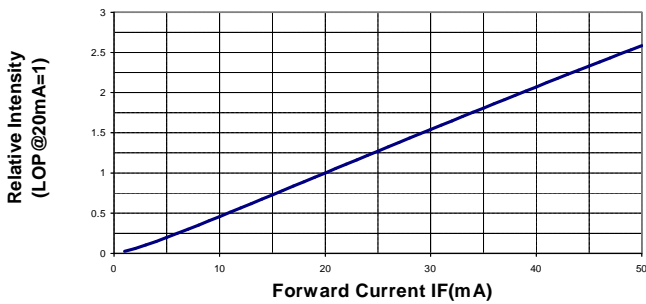
Spectral Radiance (Peak @ 630nm)



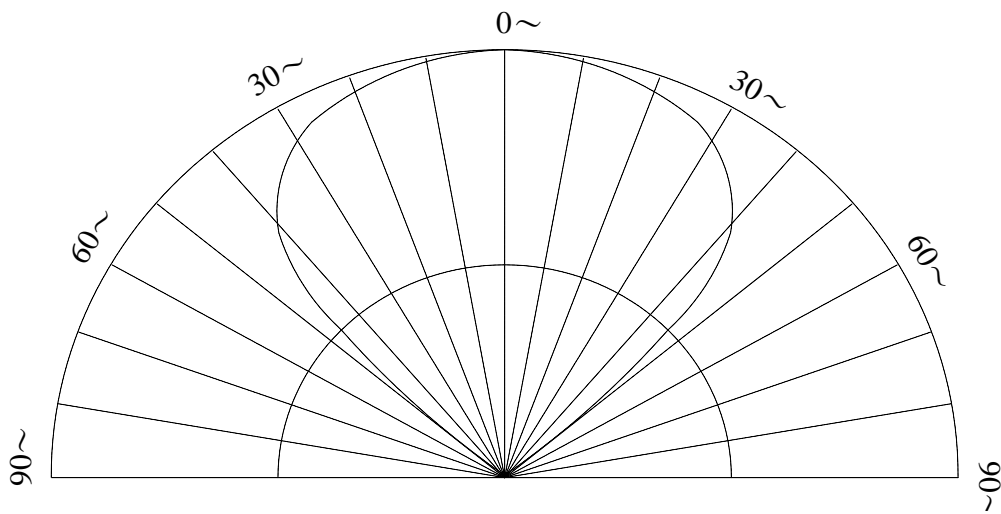
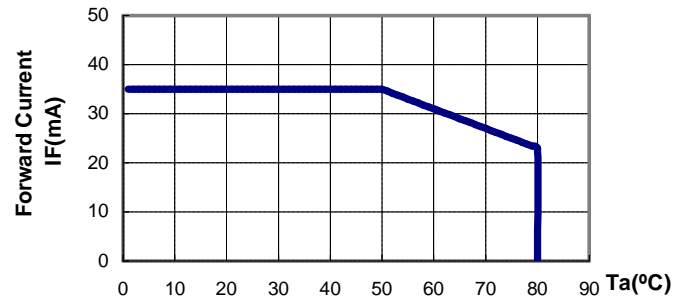
Forward Current vs Forward Voltage



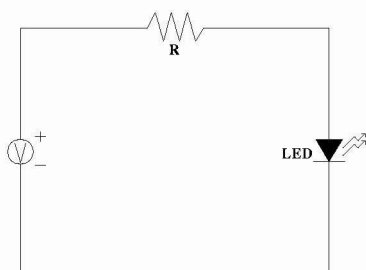
Relative Luminous Intensity vs Forward Current



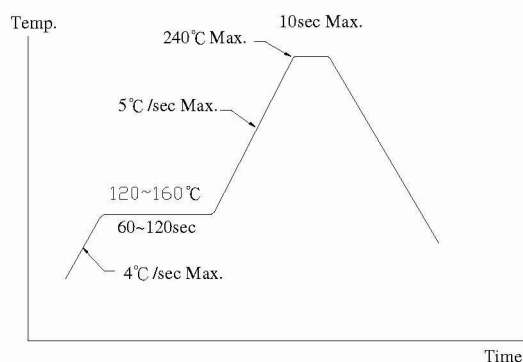
Forward Current Derating Curve



● Test Circuit



● Reflow Temp. / Time :



● Reliability Test Items And Conditions

The reliability of products shall be satisfied with items listed below.

No.	Items	Test Condition	Test Hours/Cycles	Sample Size
1	Solder Heat	TEMP : 260°C ±5°C	5 sec	48 pcs
2	Temperature Cycle	90°C ~ 25°C ~ -30°C ~ 25°C 30m 5m 30m 5m	300Cycles	48 Pcs
3	Thermal Shick	100°C ~ -55°C 10m 10m	100Cycles	48 Pcs
4	Operation Life	If=20mA	1000 Hrs	48 Pcs
5	High Temperature Storage	Temp:90°C	1000Hrs	48 Pcs
6	Low Temperature Storage	Temp:-30°C	1000Hrs	48 Pcs
7	High Temperature/High Humidity	80°C / R.H80%	1000Hrs	48 Pcs