

3.0mm Round Type LED Lamps

Features :

- Choice of various viewing angles
- Available on tape and reel.
- Reliable and robust

Descriptions :

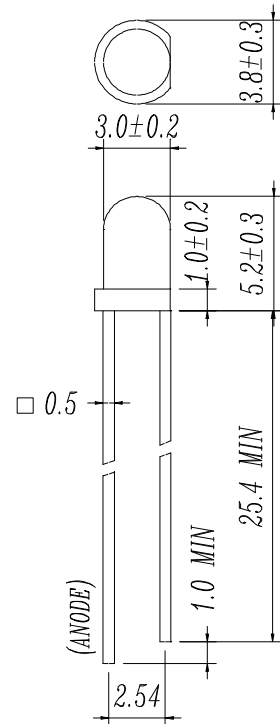
The series is specially designed for applications requiring higher brightness

The led lamps are available with different colors, intensities,

Applications :

- TV set
- Monitor
- Telephone
- Computer

Package Dimensions:



Notes :

1. All dimensions are in millimeters.
2. An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.
3. Tolerances unless Dimension $\pm 0.25\text{mm}$.

PART NO.	Chip		Lens Color
	Material	Emitted Color	
204-10SYGC/S530-E2	AlGaInP	Super Yellow Green	Water Clear

Office : 7C Building, Lian Hua Port Industrial District, Lian Hua Shan
 Bonded Processing Zone Pan Yu, Guang Zhou, China
 TEL : (020)84860913,84860914
 FAX : (020)84860600
 http : //www.everlight.com

T00694,B89113104

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Absolute Maximum Ratings at Ta = 25

Parameter	Symbol	Rating	Unit
Forward Current	IF	25	mA
Operating Temperature	Topr	-40 to +85	
Storage Temperature	Tstg	-40 to +100	
Soldering Temperature	Tsol	260 ± 5	
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	60	mW
Peak Forward Current(Duty 1/10 @ 1KHz)	IF(Peak)	160	mA
Reverse Voltage	VR	5	V

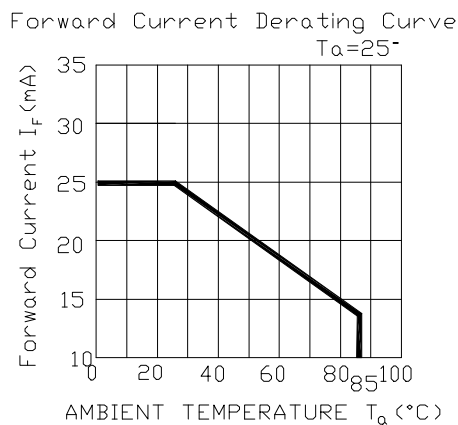
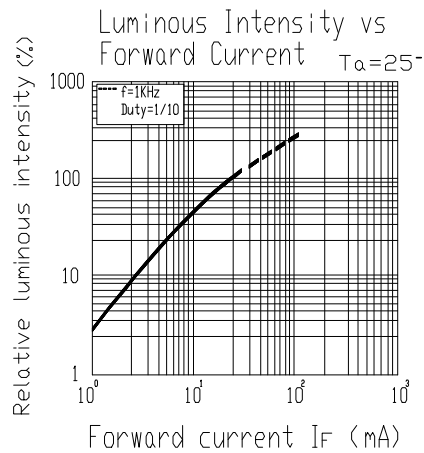
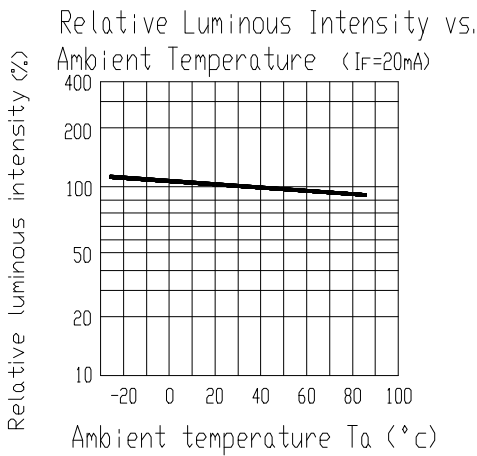
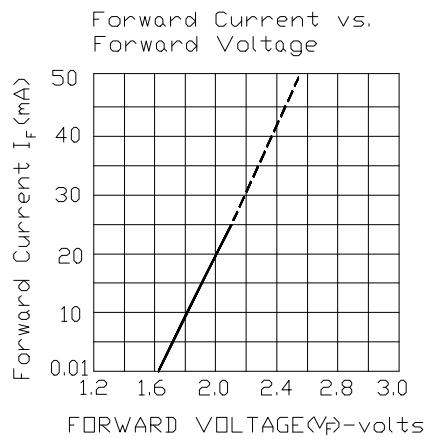
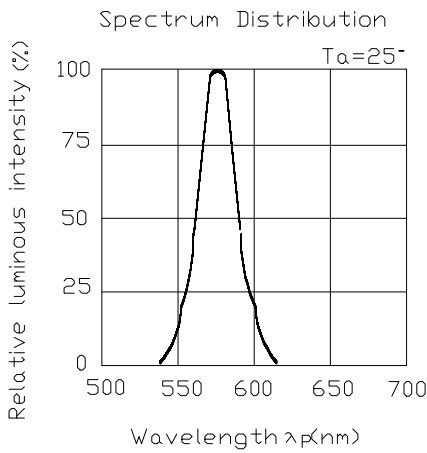
Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	125	250	/	mcd	IF= 20 mA
Viewing Angle	2 1/2	/	20	/	deg	IF= 20 mA
Peak Wavelength	p	/	575	/	nm	IF= 20 mA
Dominant Wavelength	d	/	573	/	nm	IF= 20 mA
Spectrum Radiation Bandwidth		/	20	/	nm	IF= 20 mA
Forward Voltage	VF	1.7	2.0	2.4	V	IF= 20 mA
Reverse Current	IR	/	/	10	μ A	VR= 5 V

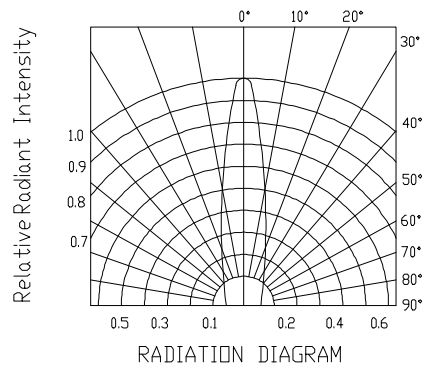
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Typical Electro-Optical Characteristic Curves:

(SYG)



Radiation Diagram $T_a=25^\circ C$



Device Number : CDLE-020-385 REV.: 2

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Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle		Ac/Re
1	Solder Heat	TEMP : 260 ± 5	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85 30min 5 min L : -55 30min	50 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100 5min 10 sec L : -10 5min	50 CYCLES	76 PCS	0/1
4	High Temperature Storage	TEMP : 100	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -55	1000 HRS	76 PCS	0/1
6	DC Operating Life	TEMP : 25 IF = 20mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85 / 85% RH	1000 HRS	76 PCS	0/1