

EVERLIGHT ELECTRONICS CO.,LTD.

DATA SHEET

PART NO.	: 20	4-10SUGC/S400-	A5
DATE	<u>:</u>	2004/9/28	
DEPARTME	NT:	CHR&D1	·
REVISION	:	1	
	REC	EIVED	
	ODUCTION		
	NAKY ER DESIGN		· · · · · · · · · · · · · · · · · · ·
DEVICE NU		CDLE-020-767	
PAGE:	66		
CUSTOMER	DESIGNER	CHECKER	APPROVER
	100 - 9 - 23 100 - 9 - 23 100 - 9 - 23		短光工程 微切 13 杂圣伝

RELEASE DATE

OFFICE: 7C BUILDING, LIAN HUA PORT INDUSTRIAL DISTRICT, LIAN HUA SHAN

DESCRIPTION

BONDED PRICESSING ZONE PAN YU, GUANG ZHU, CHINA

TEL.: (020)84860913,84860914

FAX: (020)84860600 http://www.everlight.com

REV.

Technical Data Sheet 3.0mm Round Type LED Lamps

Features:

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

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

PART NO.	Material	Emitted Color	Lens Color
204-10SUGC/S400-A5	InGaN	Super Green	Water Clear

EVERLIGHT ELECTRONICS CO.,LTD.

http://www.everlight.com

Rev.:

204-10SUGC/S400-A5

Page: 1 of 6

Device Number:

CDLE-020-767

Prepared date: 2004/9/28

Prepared by:

LianXiang You

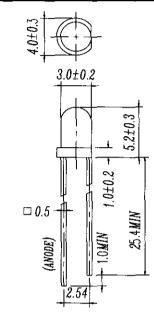
BG0409080,R0402691



Technical Data Sheet 3.0mm Round Type LED Lamps

204-10SUGC/S400-A5

Package Dimensions



Notes: 1. All dimensions are in millimetres

- 2. An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.
- 3. Tolerances unless Dimension ± 0.25 mm.

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	IF	30	mA
Operating Temperature	Topr	-40 to +85	င
Storage Temperature	Tstg	-40 to +100	J
Electrostatic Discharge	ESD	150	V
Soldering Temperature	Tsol	260 ± 5	ာ့
Power Dissipation	Pd	120	mW
Peak Forward Current	IF(Peak)	100	mA
Reverse Voltage	Vr	5	V

Note: *1:IFP Conditions -- Pulse Width \leq 1msec and Duty \leq 1/10.

*2:Soldering time \leq 5 seconds.

EVERLIGHT ELECTRONICS CO.,LTD

http://://www.everlight.com

Page: 2 of 6 Rev.: 1

Device Number: CDLE-020-767

Prepared date:

2004/9/28

Prepared by: LianXiang You



Technical Data Sheet 3.0mm Round Type LED Lamps

204-10SUGC/S400-A5

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Co	nditio	on .	Min.	Тур.	Max.	Unit
Forward Voltage	VF	IF=	20	mA	/	3.4	4.0	V
Reverse Current	IR	V _R =	5	V		/	50	μ A
Luminous Intensity	Iv	IF=	20	mA	1600	3200	/	mcd
Viewing Angle	2 0 1/2	IF=	20	mA	/	30	/	deg
Peak Wavelength	λp	IF=	20	mA	/	525	/	nm
Dominant Wavelength	λđ	IF=	20	mA	/	530		nm
Spectrum Radiation Bandwidth	Δλ	IF=	20	mA	/	35		nm

EVERLIGHT ELECTRONICS CO.,LTD.

http://www.everlight.com

Rev.:

Page: 3 of 6

Device Number: CDLE-020-767

Prepared date:

2004/9/28

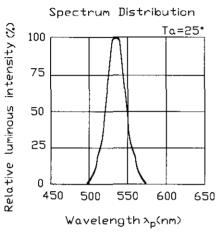
Prepared by:

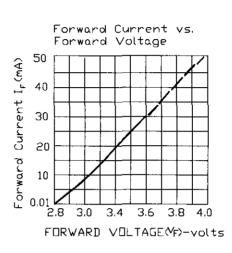
Technical Data Sheet 3.0mm Round Type LED Lamps

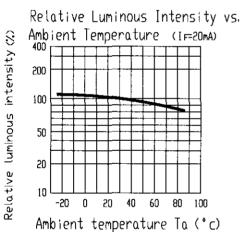
204-10SUGC/S400-A5

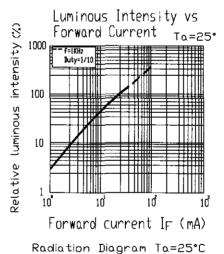
Typical Electro-Optical Characteristic Curves:

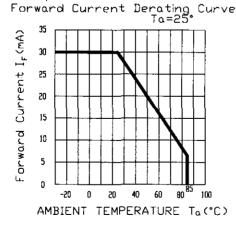


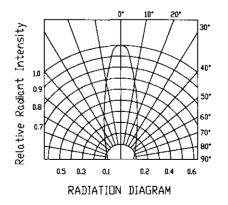












EVERLIGHT ELECTRONICS CO.,LTD.

Device Number:

CDLE-020-767

http://www.everlight.com

Rev.:

Page: 4 of 6

Prepared date: 2004/9/28

Prepared by:

Technical Data Sheet 3.0mm Round Type LED Lamps

204-10SUGC/S400-A5

■ Reliability test items and conditions:

· NO	Item	Test Conditions	Test Hours/Cycle	Sample size	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	10 SEC	76 PCS	0/1
2	Temperature Cycle	H:+100°C 15min ∫ 5 min L:-40°C 15min	300 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min ∫ 10 sec L : -10°C 5min	300 CYCLES	76 PCS	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -40°C	1000 HRS	76 PCS	0/1
6	DC Operating Life	TEMP: 25° C If = 20 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85℃ / 85% RH .	1000 HRS	76 PCS	0/1

EVERLIGHT ELECTRONICS CO.,LTD.

). http://www.everlight.com

Rev.: 1

Page: 5 of 6

Device Number:

CDLE-020-767

Prepared date: 2004/9/28

Prepared by:

LianXiang You

EVERLIGHT ELECTRONICS CO.,LTD.
Device Number: CDLE-020-767

http://www.everlight.com

Prepared date: 2004/9/28

Rev.:

Page: 6 of 6

Prepared by:

Technical Data Sheet 3.0mm Round Type LED Lamps

204-10SUGC/S400-A5

Packing Quantity Specification

1.1000PCS/1Bag , 4Bags/1Box

2.10Boxes/1Carton

Label Form Specification

EVERLIGHT

CPN;





MADE IN TAIWAN

CPN: Customer's Production Number

P/N: Production Number

QTY: Packing Quantity

CAT: Ranks

HUE: Peak Wavelength

REF: Reference

LOT No: Lot Number

MADE IN TAIWAN: Production Place

Notes

- 1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
- 2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
- 3. These specification sheets include materials protected under copyright of EVERLIGHT corporation.

Please don't reproduce or cause anyone to reproduce them without EVERLIGHT' sconsent.

EVERLIGHT ELECTRONICS CO., LTD.

Office: No 25, Lane 76, Sec 3, Chung Yang Rd,

Tucheng, Taipei 236, Taiwan, R.O.C.

Tel: 886-2-2267-2000, 2267-9936

Fax: 886-2267-6244, 2267-6189, 2267-6306

http://www.everlight.com

VERLIGHT ELECTRONICS CO.,LTD.

evice Number: CDLE-020-767

http://www.everlight.com

Prepared date: 2004/9/28

Rev.:

Page: 6 of 6

Prepared by: