

DATA SHEET

PART NO.		383-25URC/5400-2	18	_
DATE	<u> : </u>	2002/7/22		_
DEPARTME	NT:	CHR&D1		_
REVISION	:	1		
	RFC	EIVED		-]
MASS PRO	ODUCTION			-
	ER DESIGN	CDLE-038-163		}
PAGE:	<u>4</u>	CDLE-038-103		1
CUSTOMER	DESIGNER	CHECKER	APPROVER]
	20世紀 24 孫志明	物立龍	楊堂龍	
				, ,
				-
	D.F.G	CRIPTION		RELEASE DATE

Office: 7C Building, Lian Hua Port Industrial District, Lian Hua Shan

Bonded Pricessing Zone Pan Yu, Guang Zhou, China

TEL.: (020)84860913,84860914

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

REV.



Device Number: CDLE-038-163 REV.: 1

5.0mm Round Type LED Lamps

PART NO.: _____383-2SURC/S400-A8

ECN:

1/4

Features:

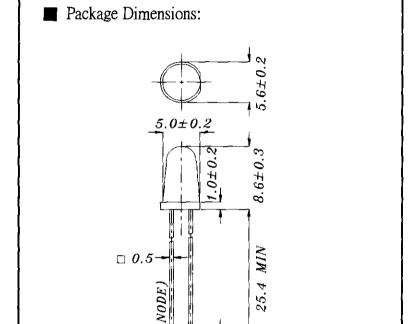
- Choice of various viewing angles
- Available on tape and reel.
- Reliable and robust

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



Page:

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 ±0.25mm.

PART NO.		Chip	Lens Color
PART NO.	Material	Emitted Color	Lens Color
383-2SURC/S400-A8	AlGaInP	Hyper Red	Water Clear

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Absolute Maximum Ratings at $Ta = 25^{\circ}C$

Parameter	Symbol	Rating	Unit
Forward Current	IF	50	mA
Operating Temperature	Topr	-40 to +85	$^{\circ}$
Storage Temperature	Tstg	-40 to +100	\mathbb{C}
Soldering Temperature	Tsol	260 ± 5	$^{\circ}$
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	120	mW
Peak Forward Current(Duty 1/10 @ 1KHz)	IF(Peak)	200	mA
Reverse Voltage	VR	5	V

■ Electronic Optical Characteristics:

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition	1
Luminous Intensity	Iv	6300	12500	/	mcd	IF= 20 m	Α
Viewing Angle	2 <i>0</i> 1/2	/	6	/	deg	IF= 20 m	A
Peak Wavelength	λp	/	632	/	nm	IF= 20 m/	Α
Dominant Wavelength	λd	/	624	/	nm	IF= 20 m/	Α
Spectrum Radiation Bandwidth	Δλ	/	20		nm	IF= 20 m	A
Forward Voltage	VF	/	2.0	2.4	V	IF= 20 m	Α
Reverse Current	IR	/	/	10	μΑ	VR= 5 V	



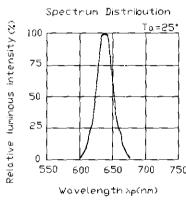
Device Number:	CDLE-038-163	REV.:	1

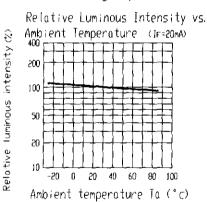
5.0mm Round Type LED Lamps

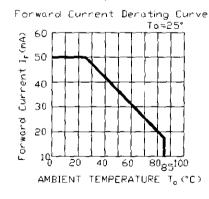
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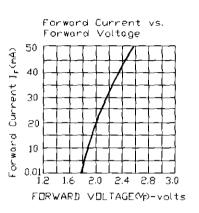
■ Typical Electro-Optical Characteristic Curves:

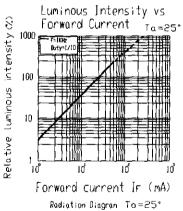


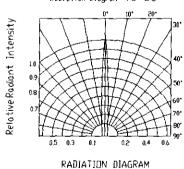












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5.0mm Round	Type LED Lamps					
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Reliability test items and conditions:

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

Mouser Electronics

Authorized Distributor

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383-2SURC/S400-A8