

## 5.0mm Round Type LED Lamps

MODEL NO : 383-2USRC/S400-A6 ECN : \_\_\_\_\_ Page: 1/4**■ Features :**

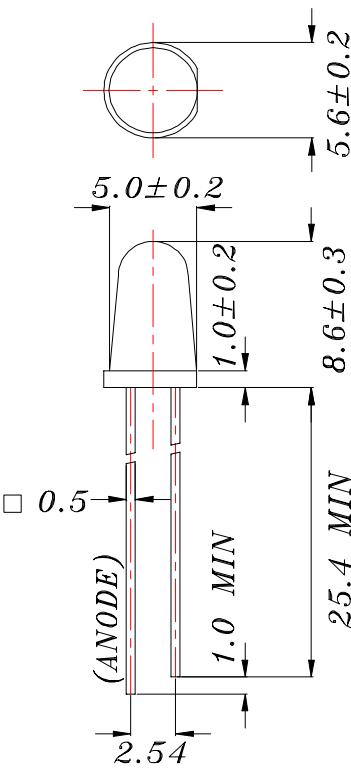
- Popular T-1 3/4 diameter package.
- Choice of various viewing angles.
- Available on tape and reel.
- Reliable and robust.

**■ Descriptions :**

- The series is specially designed for applications requiring higher brightness
- The LED lamps are available with different colors, intensities, epoxy colors, etc.

**■ 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.

PART NO	Chip		Lens Color
	Material	Emitted Color	
383-2USRC/S400-A6	AlGaInP	Super Red	Water Clear

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T99418,B990765



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## ■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	IF	50	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
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 :

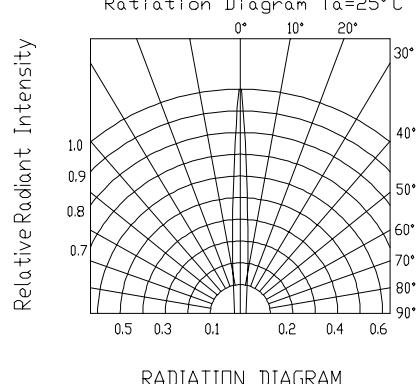
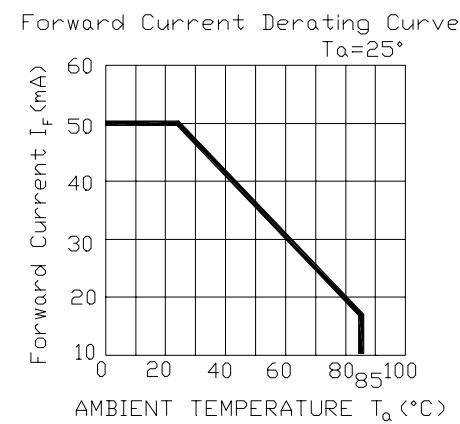
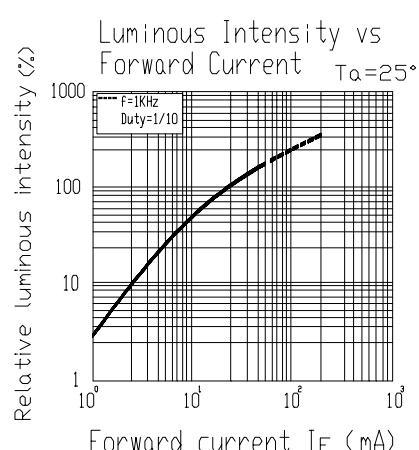
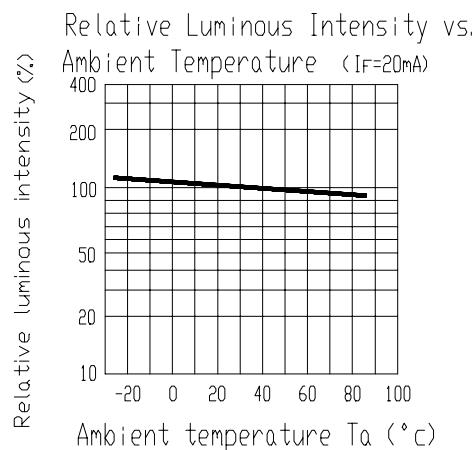
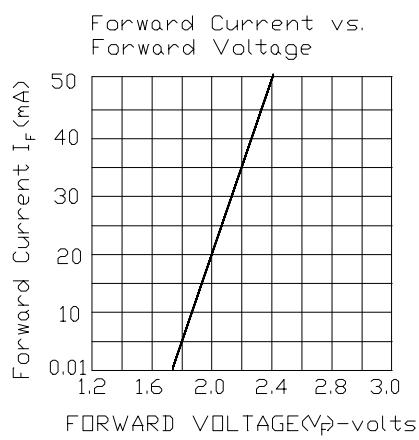
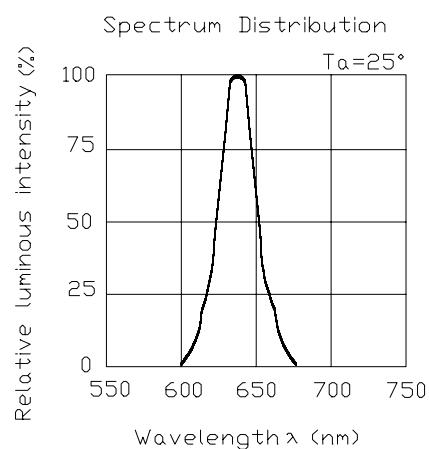
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	3293	5269	/	mcd	IF= 20 mA
Viewing Angle	2θ 1/2	/	6	/	deg	IF= 20 mA
Peak Wavelength	λ p	/	639	/	nm	IF= 20 mA
Dominant Wavelength	λ d	/	631	/	nm	IF= 20 mA
Spectrum Radiation Bandwidth	△λ	/	20	/	nm	IF= 20 mA
Forward Voltage	VF	/	2.0	2.4	V	IF= 20 mA
Reverse Current	IR	/	/	10	μA	VR= 5 V



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## ■ Typical Electro-Optical Characteristic Curves:





# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-038-076 REV: 2

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### ■ Reliability test items and conditions:

No	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : $+85^{\circ}\text{C}$ 30min ↓ 5 min L : $-55^{\circ}\text{C}$ 30min	50 CYCLES	76 PCS	0/1
3	Thermal Shock	H : $+100^{\circ}\text{C}$ 5min ↓ 10 sec L : $-10^{\circ}\text{C}$ 5min	50 CYCLES	76 PCS	0/1
4	High Temperature Storage	TEMP : $100^{\circ}\text{C}$	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : $-55^{\circ}\text{C}$	1000 HRS	76 PCS	0/1
6	DC Operating Life	IF = 20 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	$85^{\circ}\text{C} / 85\% \text{ RH}$	1000 HRS	76 PCS	0/1