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Jameco Part Number 134333



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-038-046 REV: 2.1

## 5.0mm Round Type LED Lamps

PART NO. : 383UBC/H2 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.

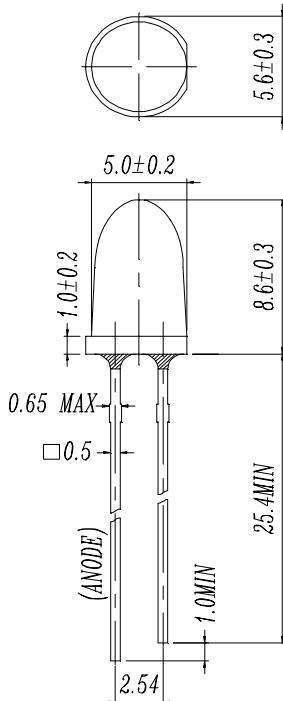
### ■ Descriptions :

- 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.
3. Tolerances unless dimension  $\pm 0.25\text{mm}$

PART NO	Chip		Lens Color
	Material	Emitted Color	
383UBC/H2	GaN/SiC	Blue	Water Clear

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

Parameter	Symbol	Rating	Unit
Forward Current	IF	30	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Electrostatic Discharge	ESD	1000	V
Power Dissipation	Pd	70	mW
Peak Forward Current(Duty 1/10 @ 1KHz)	IF(Peak)	140	mA
Reverse Voltage	VR	5	V

## ■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	400	630	/	mcd	IF= 20 mA
Viewing Angle	2θ 1/2	/	30	/	deg	IF= 20 mA
Peak Wavelength	λ p	/	428	/	nm	IF= 20 mA
Dominant Wavelength	λ d	/	466	/	nm	IF= 20 mA
Spectrum Radiation Bandwidth	△λ	/	20	/	nm	IF= 20 mA
Forward Voltage	VF	/	3.8	4.5	V	IF= 20 mA
Reverse Current	IR	/	/	50	μA	VR= 5 V



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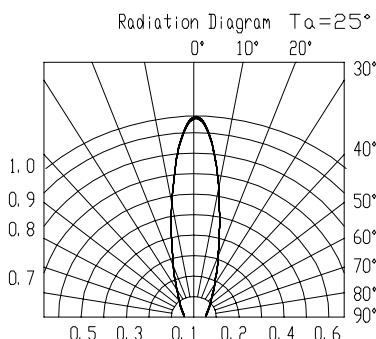
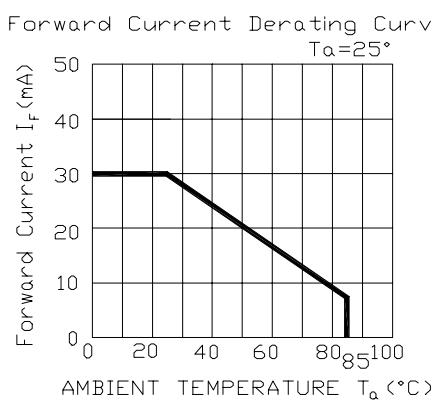
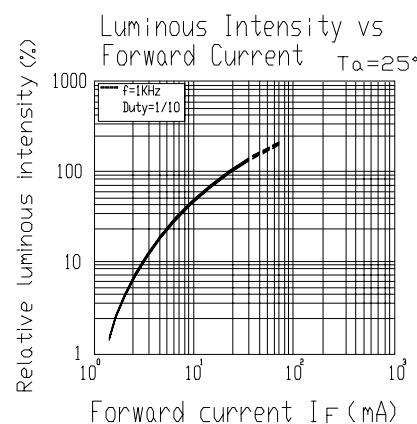
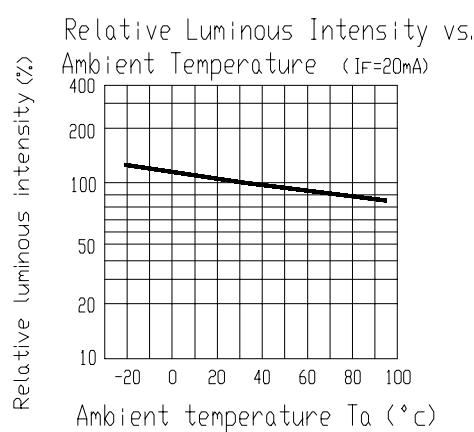
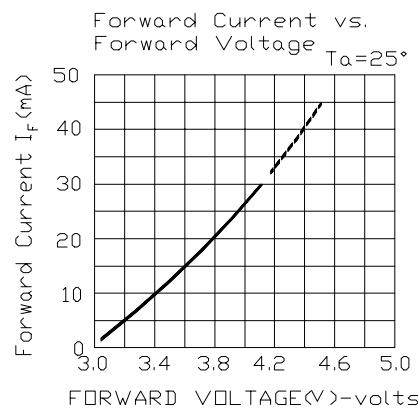
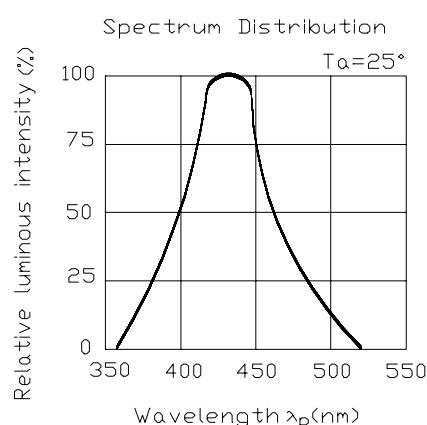
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### ■ Typical Electro-Optical Characteristic Curves:





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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	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	TEMP : $25^{\circ}\text{C}$ IF=20mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	$85^{\circ}\text{C} / 85\% \text{ RH}$	1000 HRS	76 PCS	0/1