



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-375-005 REV: 1.0

Arch Type LED Lamps

**MODEL NO :** 3753-13UBC/C430 **ECN :** \_\_\_\_\_ **Page:** 1/4

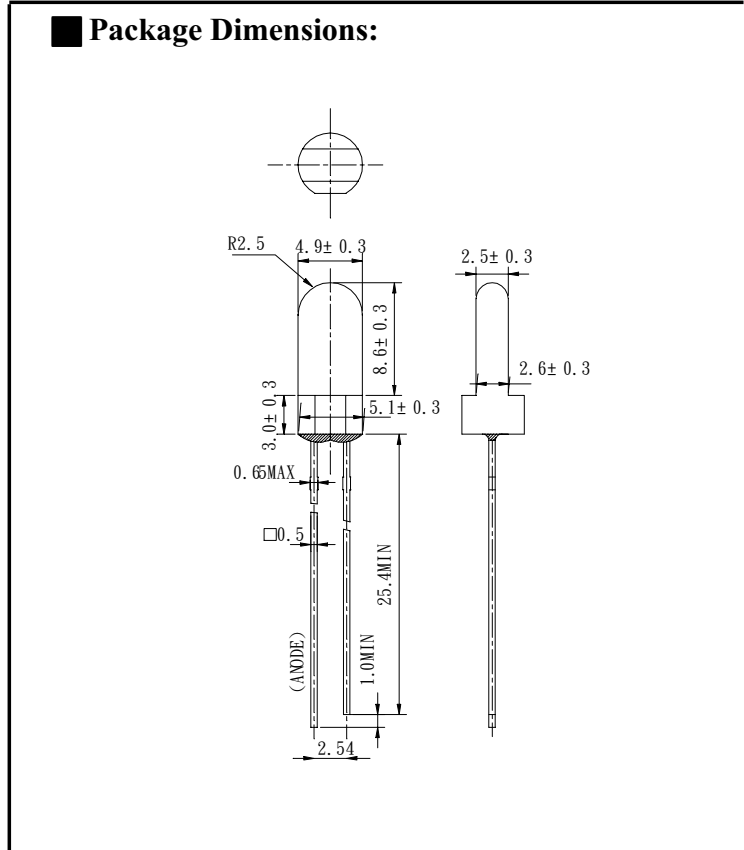
■ **Features :**

- 2.5X4.9mm arch type all resin mold.
- Low power consumption.
- 2.54mm(0.1inch) lead spacing.
- Available on tape reel.

■ **Descriptions :**

- The series is specially designed for applications require higher brightness than that achievable with standard lamp.
- The LED lamps are available witha different colors,intensities, epoxy colors, etc.

■ **Package Dimensions:**



■ **Applications :**

- TV Set
- Monitor
- Telephone
- Computer

■ **NOTES :**

- 1.All dimensions are in millimeters.
- 2.Epoxy meniscus may extend about 1.5mm(0.059") down to the lead.

PART NO	CHIP		Lens Color
	Material	Emitted Color	
3753-13UBC/C430	GaN/SiC Substrate	Blue	Water Clear

B89030369,890305

Office : NO 25,Lane 76, Chung Yang Rd, Sec.3, Tucheng, Taipei 236, Taiwan, R.O.C.

TEL : 886-2-2267-2000,2266-9936(22 Lines)

FAX : 886-2-2267-6189

http: //www.everlight.com



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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	140	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	If(Peak)	70	mA
Reverse Voltage	Vr	5	V

## ■ Electronic Optical Characteristics :

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous intensity	Iv	400	630	----	mcd	If=20mA
Viewing Angle	2θ 1/2	----	6	----	deg	If=20mA
Peak Wavelength	λ p	----	428	----	nm	If=20mA
Dominant Wavelength	λ d	-----	466	-----	nm	If=20mA
Spectrum Radiation Bandwidth	△ λ	----	65	----	nm	If=20mA
Forward Voltage	Vf	----	3.8	4.5	V	If=20mA
Reverse Current	Ir	----	----	10	μ A	Vr=5V

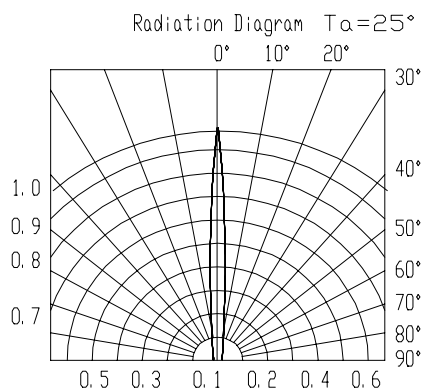
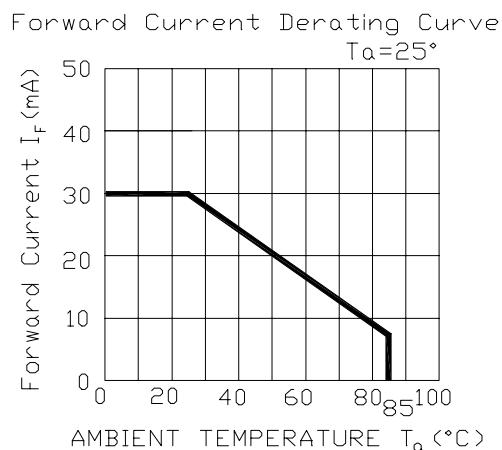
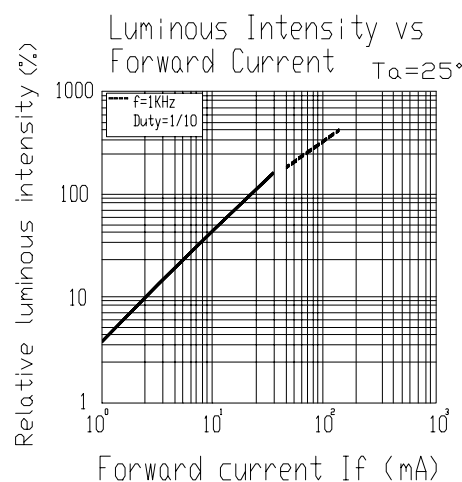
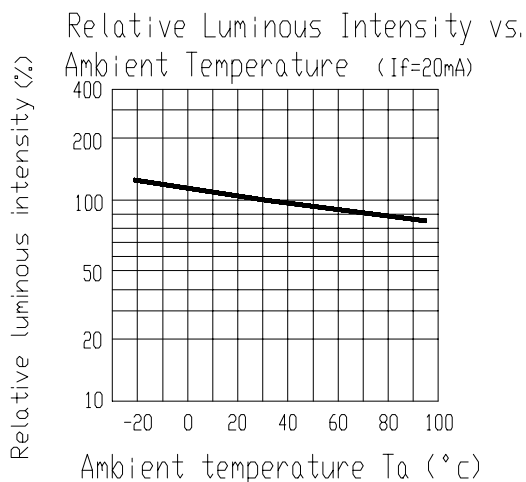
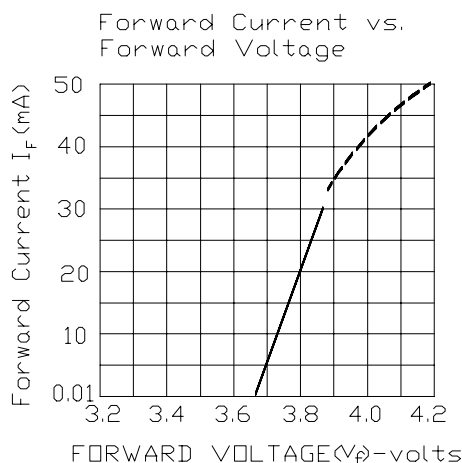
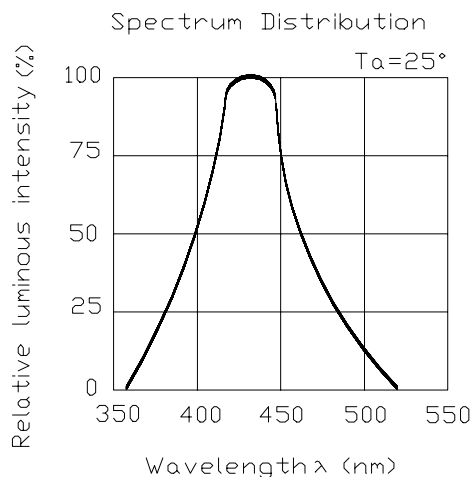


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## Typical Electro-Optical Characteristic Curves





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NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Soldering 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 CYCLE	76 Pcs	0/1
3	Thermal Shock	H : +100°C 5min ∫ 10 sec L : -10°C 5min	50 CYCLE	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	If = 20 mA	1000 HRS	76 Pcs	0/1
7	High Temperature / High Humidity	85°C /85% RH	1000 HRS	76 Pcs	0/1