



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-058-023 REV: 1.0

5.0\*5.0mm Square Type LED Lamps

MODEL NO : 583UYD/S530-A5 ECN : \_\_\_\_\_ Page: 1/4

### ■ Features :

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

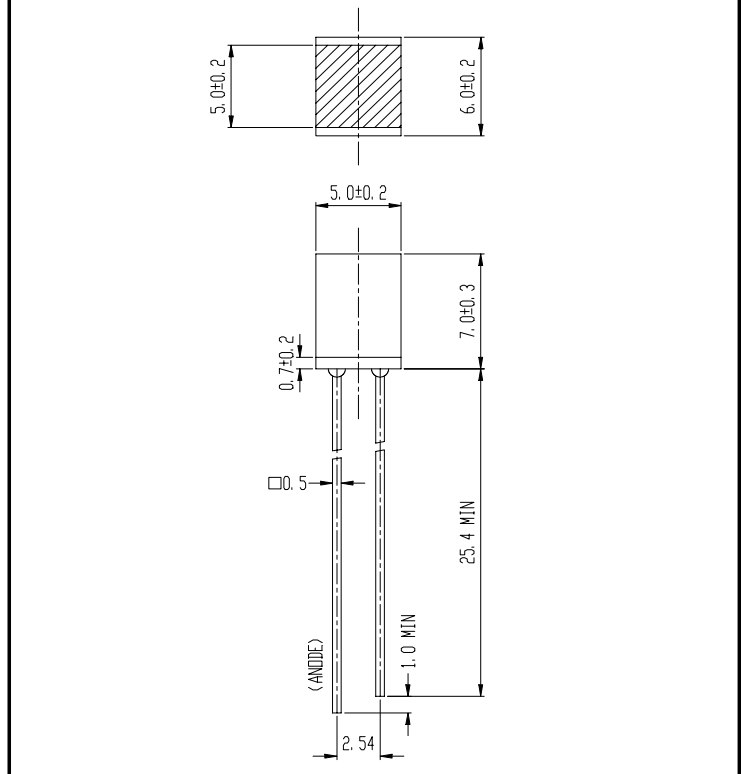
### ■ Descriptions :

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

### ■ Applications :

- TV set
- Monitor
- Telephone
- Computer

### ■ Package Dimensions:



### ■ 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	
583UYD/S530-A5	AlGaInP	Super Yellow	Yellow Diffused

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## Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	If	25	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	60	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	If(Peak)	160	mA
Reverse Voltage	Vr	5	V

## Electronic Optical Characteristics :

Parameter	Symbol	Min..	Typ..	Max..	Unit	Condition
Luminous intensity	Iv	16	25	/	mcd	If= 20 mA
Viewing Angle	2θ 1/2	/	160	/	deg	If= 20 mA
applications requiing higher	λ p	/	591	/	nm	If= 20 mA
Dominant Wavelength	λ d	/	589	/	nm	If= 20 mA
Spectrum Radiation Bandwidth	△ λ	/	15	/	nm	If= 20 mA
Forward Voltage	Vf	/	2.00	2.40	V	If= 20 mA
Reverse Current	Ir	/	/	10	μ A	Vr= 5 V



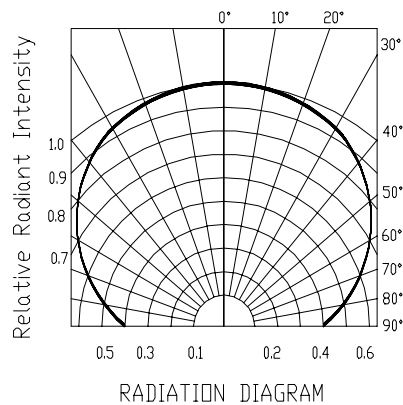
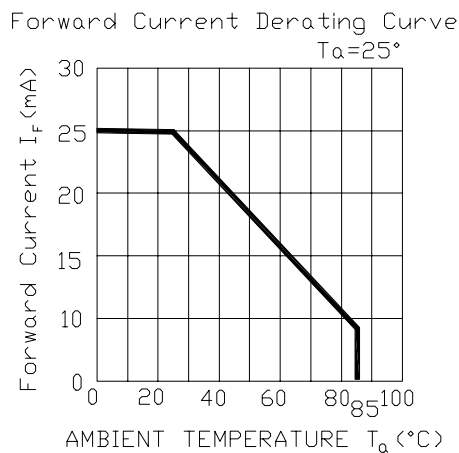
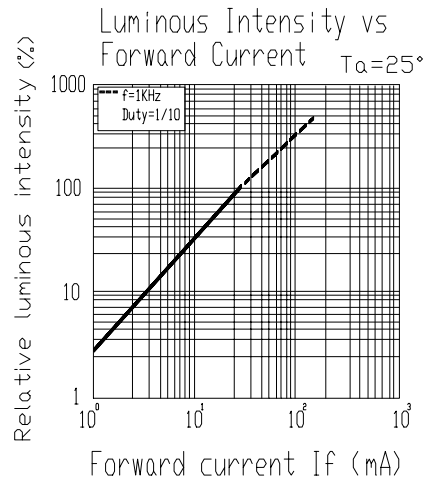
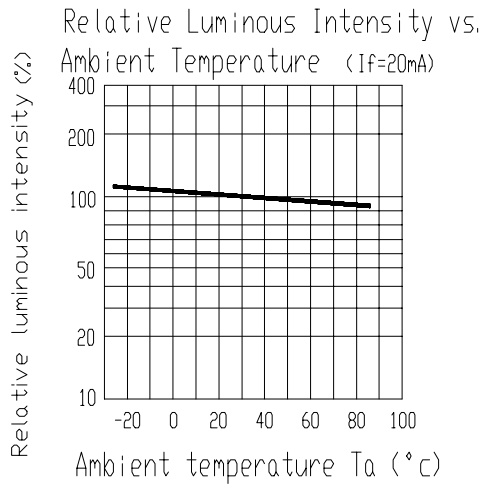
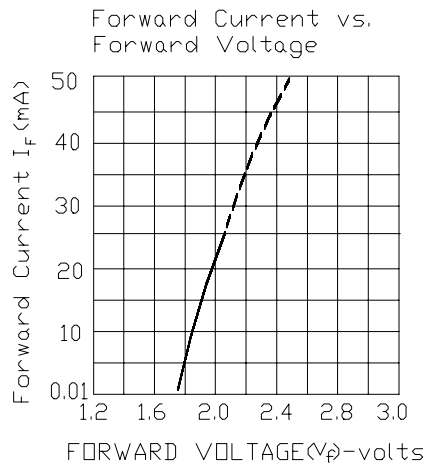
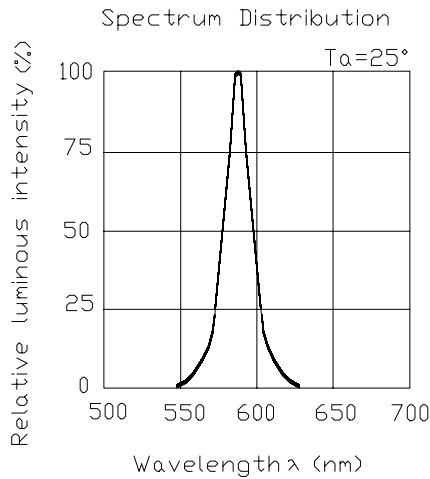
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## Typical Electro-Optical Characteristic Curves



a.



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## ■ Reliability test item and condition

No	Item	Test Conditions	Test Hours/Cycle	Sample Size	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 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

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