



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-532-048 REV: 1.3

4.4X5.6 mm Elliptical Wide Angle LEDs

PART NO : 5323-2UYC/S785/MS ECN : Page: 1/4

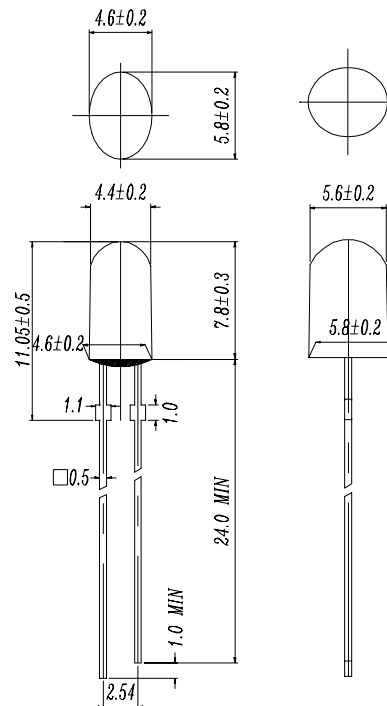
■ Features :

- Low Power consumption.
- Versatile mounting PCB or panel.
- High efficiency.
- I.C. compatible/low current requirement.

■ Descriptions:

- The series is 4.4X5.6mm LED lamps.
- The series is specially designed for applications requiring higher brightness
- The LED lamps are available with different colors,intensities, epoxy colors, etc.

■ Package Dimensions:



■ Applications :

- TV Set
- Monitor
- Telephone
- Computer

■ 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 ± 0.25 mm

PART NO	589	Chip		Lens Color
		Material	Emitted Color	
5323-2UYC/S785/MS		AlGaInP	Super Yellow	Water Clear

A992516.991261

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■ Absolute Maximum Ratings at Ta = 25℃

Parameter	Symbol	Rating	Unit
Forward Current	IF	50	mA
Operating Temperature	Topr	-40 to +85	℃
Storage Temperature	Tstg	-40 to +100	℃
Soldering Temperature	Tsol	260 ± 5	℃
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	700	----	2000	mcd	IF=20mA
Viewing Angle	2 θ 1/2	----	X:30 Y:70	----	deg	IF=20mA
Peak Wavelength	λ p	----	591	----	nm	IF=20mA
Dominant Wavelength	λ d	583	----	590	nm	IF=20mA
Spectrum Radiation Bandwidth	△ λ	----	15	----	nm	IF=20mA
Forward Voltage	VF	1.8	2.0	2.3	V	IF=20mA
Reverse Current	IR	----	----	10	μ A	VR=5V

■ Specifications for Bin Grading:(unit:mcd)

condition:20mA

Bin Grading	Min	Typ	Max
Rank V	700	----	1250
Rank W	1000	----	2000

VF CAT	E	F	F1
Min	1.8 v	1.99 v	2.19 v
Max	2.00 v	2.20 v	2.30 v

HUE CAT	4	5
Min	587	590
Max	589	593



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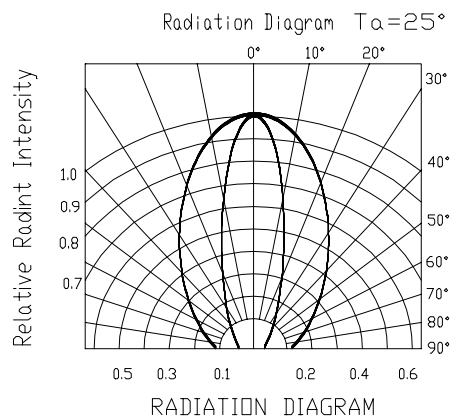
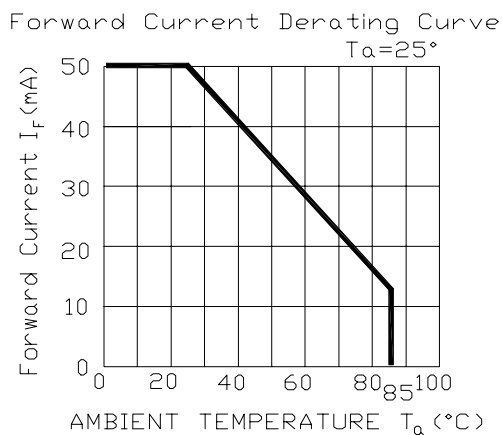
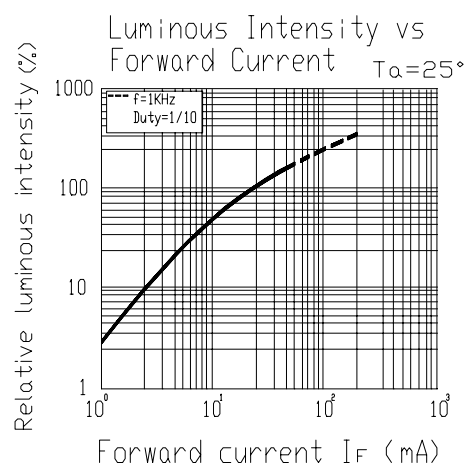
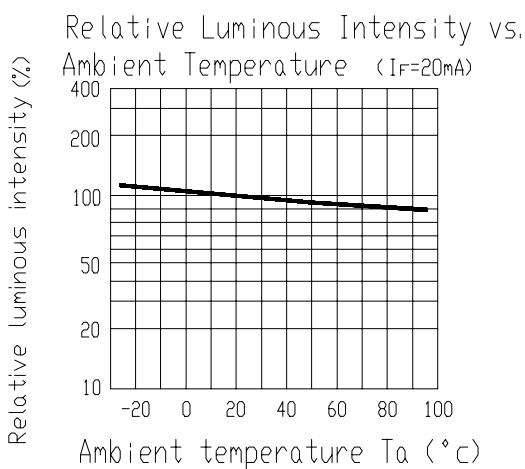
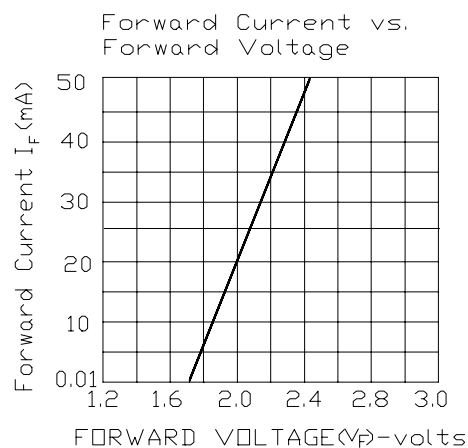
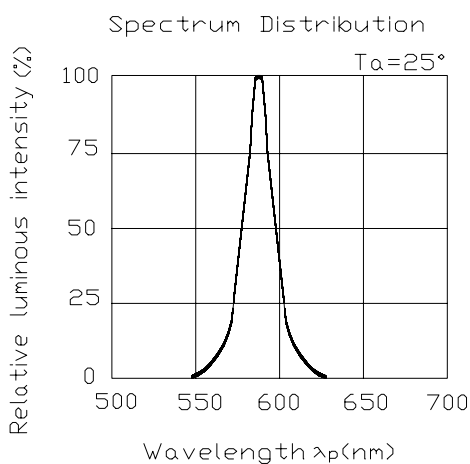
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■ Typical Electro-Optical Characteristic Curves





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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°C ± 5 °C	5SEC	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	IF = 20 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 PCS	0/1