



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-122-067 REV: 1.0

## 3mm Round LEDs

MODEL NO : 1224UYC/S530-A5 ECN :                      Page: 1/4

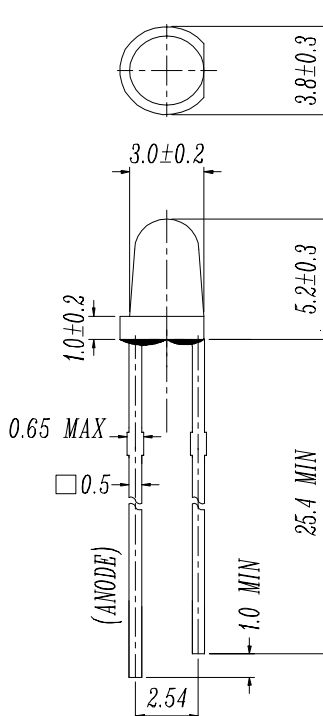
### Features :

- High luminous power.
- Can be driven at low current.
- 2.54mm lead spacing.
- Available on tape and reel.

### Description :

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

### Package Dimension:



### 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.

PART NO	CHIP		Lens Color
	Material	Emitted Color	
1224UYC/S530-A5	AlGaInP	Super Yellow	Water Clear

DESIGNER	CHECKER	APPROVER

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### ■ Absolute Maximum Ratings at T<sub>A</sub> = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	I <sub>f</sub>	25	mA
Operating Temperature	T <sub>opr</sub>	-40 to +85	°C
Storage Temperature	T <sub>stg</sub>	-40 to +100	°C
Soldering Temperature	T <sub>sol</sub>	260 ± 5	°C
Power Dissipation	P <sub>d</sub>	60	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	I <sub>f</sub> (Peak)	160	mA
Reverse Voltage	V <sub>r</sub>	5	V

### ■ Electronic Optical Characteristics :

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous intensity	I <sub>v</sub>	--- 310	30 500	----	mcd	I <sub>f</sub> =2mA I <sub>f</sub> =20mA
Viewing Angle	2 θ 1/2	-----	25	----	deg	I <sub>f</sub> =20mA
Peak Wavelength	λ <sub>p</sub>	----	591	----	nm	I <sub>f</sub> =20mA
Dominant Wavelength	λ <sub>d</sub>	-----	589	-----	nm	I <sub>f</sub> =20mA
Spectrum Radiation Bandwidth	△ λ	----	15	----	nm	I <sub>f</sub> =20mA
Forward Voltage	V <sub>f</sub>	----	2.0	2.4	V	I <sub>f</sub> =20mA
Reverse Current	I <sub>r</sub>	----	----	10	μ A	V <sub>r</sub> =5V

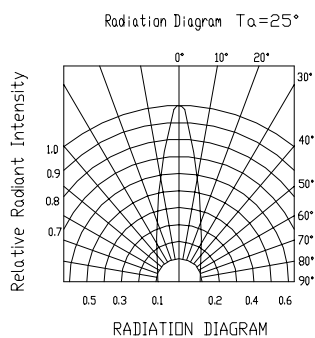
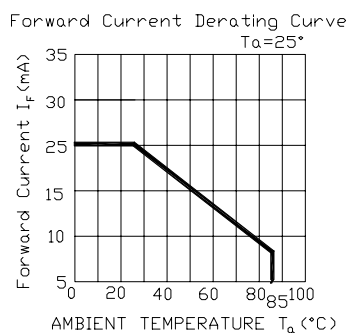
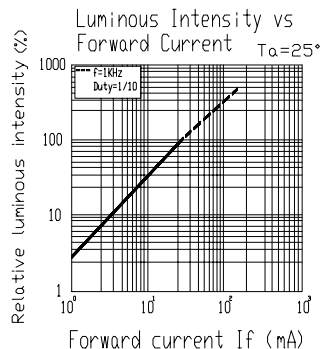
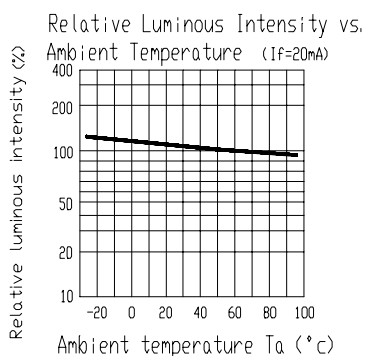
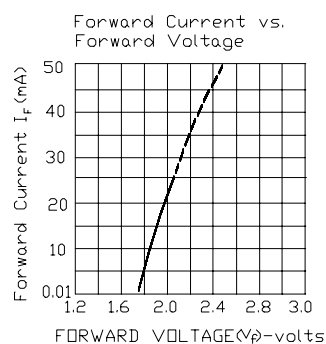
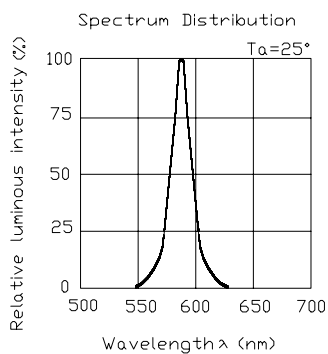
ESD:2000



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### ■ Typical Electro-Optical Characteristic Curves





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### ■ Reliability test item and condition

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Soldering Heat	TEMP : 260°C ± 5 °C	10±1 SEC	76 Pcs	0/1
2	Solderability	TEMP : 230°C ± 5 °C	5±1 SEC	76 Pcs	0/1
3	Temperature Cycle	H : +85°C 30min └ 5 min L : -55°C 30min	50 CYCLE	76 Pcs	0/1
4	Thermal Shock	H : +100°C 5min └ 10 sec L : -10°C 5min	50 CYCLE	76 Pcs	0/1
5	High Temperature Storage	TEMP : 100°C	1000 HRS	76 Pcs	0/1
6	Low Temperature Storage	TEMP : -55°C	1000 HRS	76 Pcs	0/1
7	DC Operating Life	If = 20 mA	1000 HRS	76 Pcs	0/1
8	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 Pcs	0/1