



EVERLIGHT ELECTRONICS CO.,LTD.



DATA SHEET

MODEL NO : 1224USOC/S530-A3

DATE : 2000/3/10

DEPARTMENT : CHR&D1

REVISION : 1

| | | | |
|---|---|--------------|---|
| RECEIVED | | | |
| <input checked="" type="checkbox"/> MASS PRODUCTION | | | |
| <input type="checkbox"/> PRELIMINARY | | | |
| <input type="checkbox"/> CUSTOMER DESIGN | | | |
| DEVICE NUMBER : | | CDLE-122-071 | |
| PAGE : | | 4 | |
| CUSTOMER | DESIGNER | CHECKER | APPROVER |
| |  | / |  |

| | | |
|-----|-------------|--------------|
| | | |
| | | |
| | | |
| | | |
| 1 | | 2000/3/10 |
| REV | DESCRIPTION | RELEASE DATE |

Office : 7C Building, Lian Hua Port Industrial District, Lian Hua Shan
 Bonded Pricessing Zone Pan Yu, Guang Zhou, China
 TEL : (020)84860913,84860914
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[http : //www.everlight.com](http://www.everlight.com)



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-122-071

REV: 1

3.0mm Round Type LED Lamps

MODEL NO : 1224USOC/S530-A3

ECN : _____

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■ Features :

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

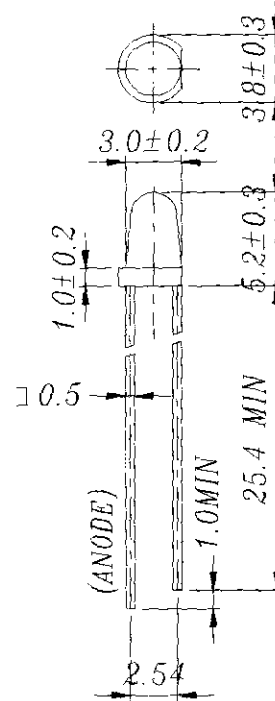
■ Descriptions :

- The series is specially designed for applications require higher brightness than that achievable with standard lamp.
- The LED lamp 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 | |
| 1224USOC/S530-A3 | AlGaInP | Super Sunset Orange | Water Clear |

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MODEL NO : 1224USOC/S530-A3 ECN : Page: 2/4

■ 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 |
| 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 | 188.00 | 295.00 | / | mcd | If= 20 mA |
| Viewing Angle | 2θ 1/2 | / | 25 | / | deg | If= 20 mA |
| Peak Wavelength | λ p | / | 621 | / | nm | If= 20 mA |
| Dominant Wavelength | λ d | / | 615 | / | nm | If= 20 mA |
| Spectrum Radiation Bandwidth | Δ λ | / | 18 | / | nm | If= 20 mA |
| Forward Voltage | Vf | 1.70 | 2.00 | 2.40 | V | If= 20 mA |
| Reverse Current | Ir | / | / | 10 | μ A | Vr= 5 V |



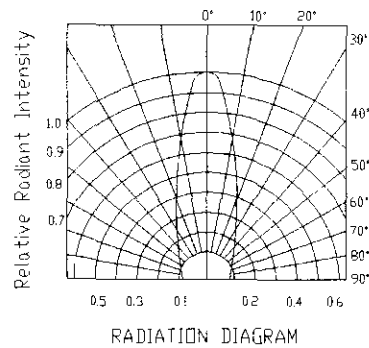
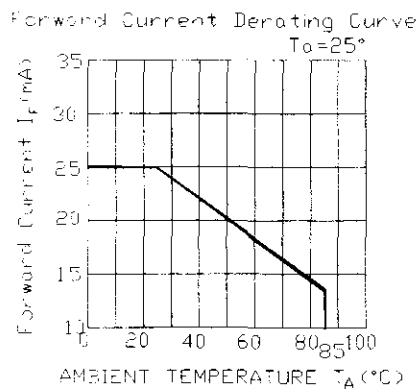
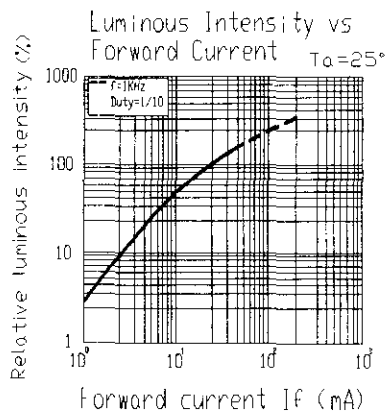
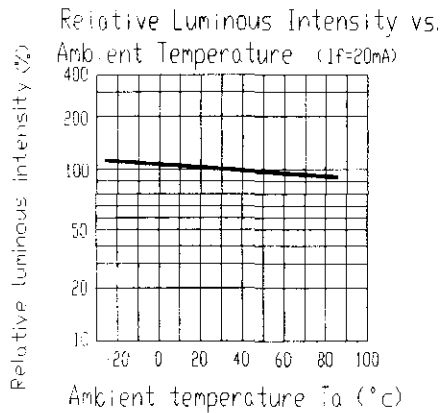
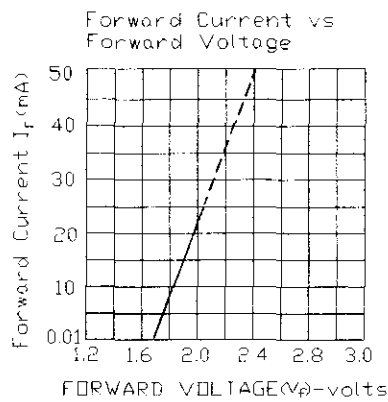
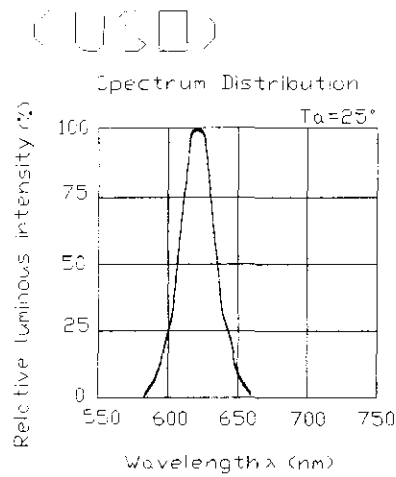
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■ Typical Electro-Optical Characteristic Curves:





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■ Reliability test item and conditions:

| 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 |