



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-038-124 REV: 1.0

T-1 3/4(5mm) High Intensity LEDs

MODEL NO : 383-2SYGC/S530-E2 ECN : _____ Page: 1/4

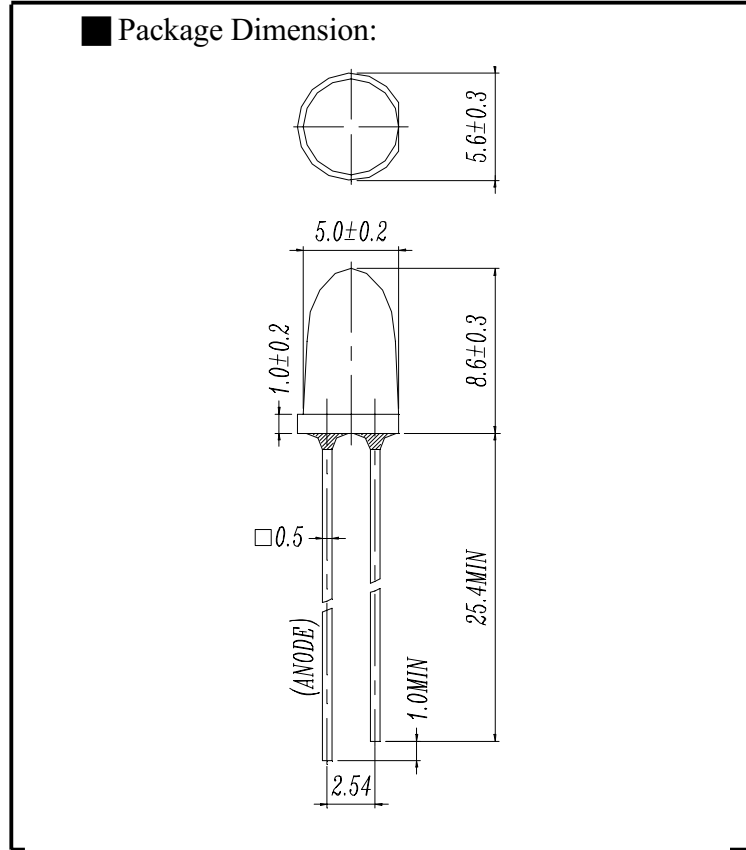
Features :

- Popular T-1 3/4 diameter package.
- Choice of various viewing angles.
- Available on tape and reel.
- Reliable and robust.

Description :

- The series is specially designs 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 millimeter.
- 2.An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.

| PART NO | CHIP | | Lens Color |
|-------------------|----------|--------------------|-------------|
| | Material | Emitted Color | |
| 383-2SYGC/S530-E2 | AlGaInP | Super Yellow Green | Water Clear |

| DESIGNER | CHECKER | APPROVER |
|----------|---------|----------|
| | | |

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Absolute Maximum Ratings at $T_A = 25^\circ\text{C}$

| Parameter | Symbol | Rating | Unit |
|--|----------|-------------|------------------|
| Forward Current | If | 25 | mA |
| Operating Temperature | Topr | -40 to +85 | $^\circ\text{C}$ |
| Storage Temperature | Tstg | -40 to +100 | $^\circ\text{C}$ |
| Soldering Temperature | Tsol | 260 ± 5 | $^\circ\text{C}$ |
| Power Dissipation | Pd | 60 | mW |
| Peak Forward Current(Duty 1/10 @ 1KHZ) | If(Peak) | 120 | mA |
| Reverse voltage | Vr | 5 | V |

Electronic Optical Characteristics :

| Parameter | Symbol | MIN. | TYP. | MAX. | Unit | Condition |
|------------------------------|-----------------|-------------|-----------|-------|---------------|-------------------|
| Luminous intensity | Iv | ---- 590 | 48 810 | ----- | mcd | If=2mA If=20mA |
| Viewing Angle | $2\theta 1/2$ | ---- | 6 | ---- | deg | If=20mA |
| Peak Wavelength | λ_p | ---- | 575 | ----- | nm | If=20mA |
| Dominant Wavelength | λ_d | ---- | 573 | ---- | nm | If=20mA |
| Spectrum Radiation Bandwidth | $\Delta\lambda$ | --- | 20 | ---- | nm | If=20mA |
| Forward Voltage | Vf | ---- | 2.0 | 2.4 | V | If=20mA |
| Reverse Current | Ir | ---- | ---- | 10 | μA | Vr=5V |

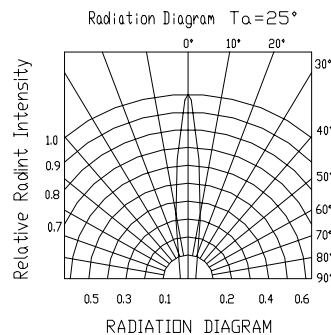
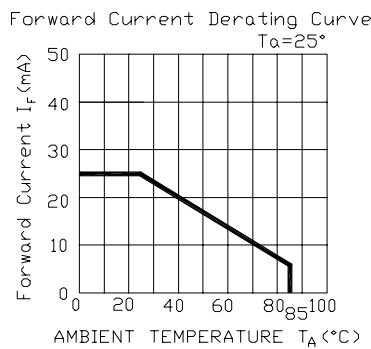
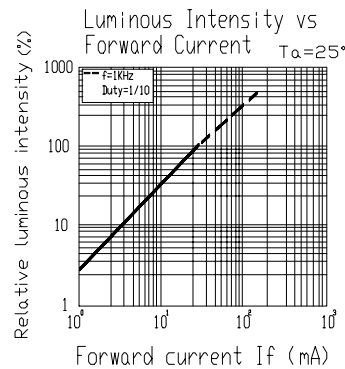
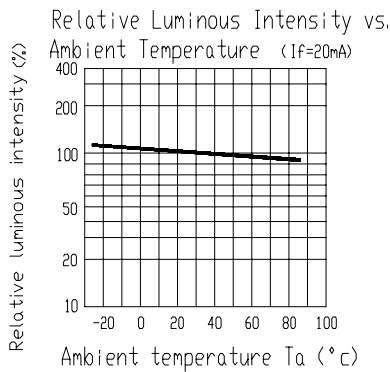
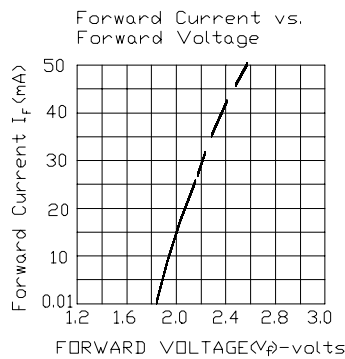
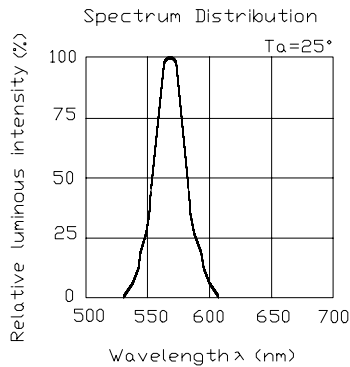


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■ Typical Electro-Optical Characteristic Curves





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■ Reliability test items and conditions

| NO | Item | Test Conditions | Test Hours/Cycle | Sample Size | Ac/Re |
|----|----------------------------------|---|------------------|-------------|-------|
| 1 | 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 |