



Technical Data Sheet

3.0mm Round Type LED Lamps

204-10SYGD/S530-E2

■ 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,

■ Applications :

- TV set
- Monitor
- Telephone
- Computer

| PART NO. | Material | Emitted Color | Lens Color |
|--------------------|----------|--------------------|----------------|
| 204-10SYGD/S530-E2 | AlGaInP | Super Yellow Green | Green Diffused |

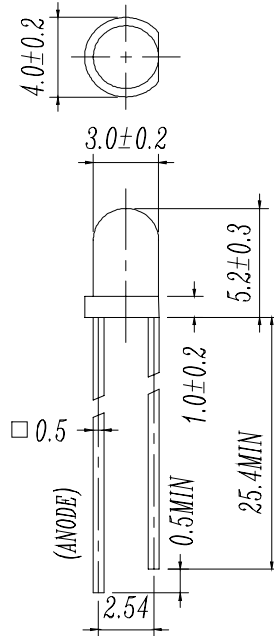


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Package Dimensions



Notes: 1. All dimensions are in millimetres

2. An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.
3. Tolerances unless Dimension ± 0.25 mm.

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

| Parameter | Symbol | Rating | Unit |
|-------------------------|--------------------|-------------|------------------|
| Forward Current | I_F | 25 | mA |
| Operating Temperature | T_{opr} | -40 to +85 | $^\circ\text{C}$ |
| Storage Temperature | T_{stg} | -40 to +100 | $^\circ\text{C}$ |
| Electrostatic Discharge | ESD | 2000 | V |
| Soldering Temperature | T_{sol} | 260 ± 5 | $^\circ\text{C}$ |
| Power Dissipation | P_d | 60 | mW |
| Peak Forward Current | $I_F(\text{Peak})$ | 160 | mA |
| Reverse Voltage | V_R | 5 | V |

Note: *1: I_{FP} Conditions -- Pulse Width $\leq 1\text{msec}$ and Duty $\leq 1/10$.

*2: Soldering time ≤ 5 seconds.



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Electro-Optical Characteristics (Ta=25°C)

| Parameter | Symbol | Condition | Min. | Typ. | Max. | Unit |
|------------------------------|----------------|------------------------|------|------|------|------|
| Forward Voltage | V _F | I _F = 20 mA | / | 2.0 | 2.4 | V |
| Reverse Current | I _R | V _R = 5 V | / | / | 10 | μA |
| Luminous Intensity | I _v | I _F = 20 mA | 25 | 50 | / | mcd |
| Viewing Angle | 2θ 1/2 | I _F = 20 mA | / | 60 | / | deg |
| Peak Wavelength | λ _p | I _F = 20 mA | / | 575 | / | nm |
| Dominant Wavelength | λ _d | I _F = 20 mA | / | 573 | / | nm |
| Spectrum Radiation Bandwidth | Δλ | I _F = 20 mA | / | 20 | / | nm |



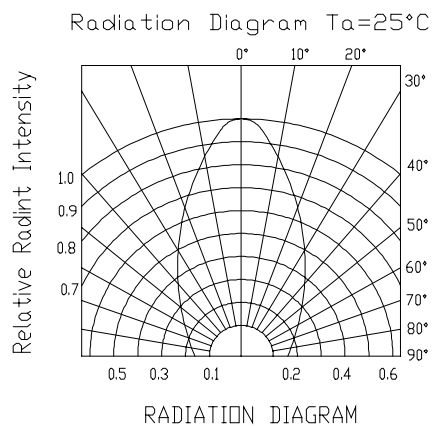
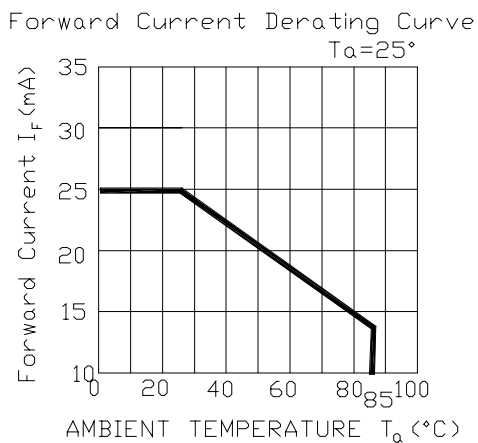
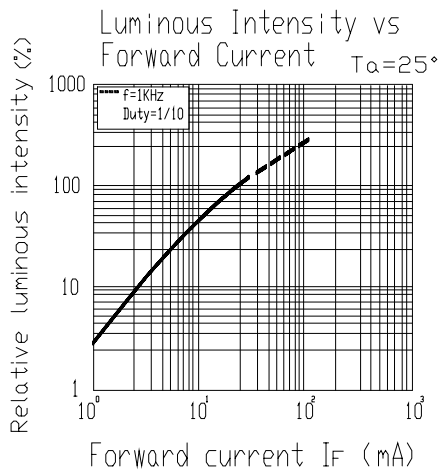
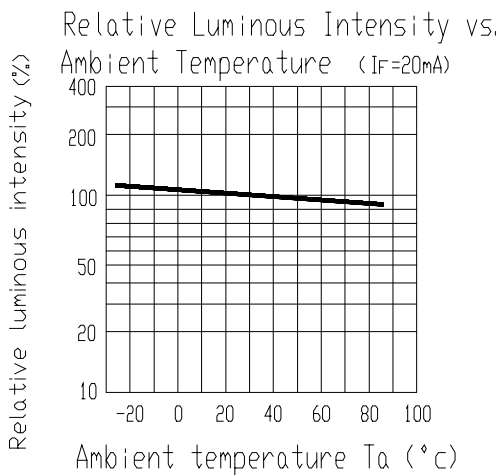
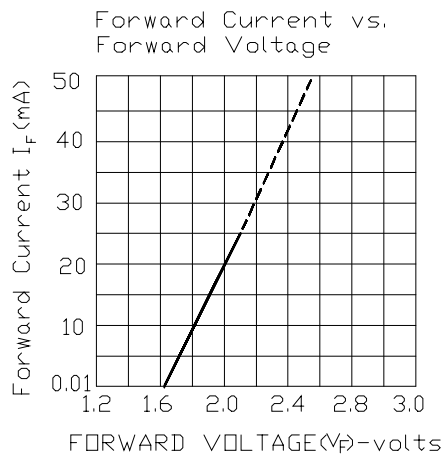
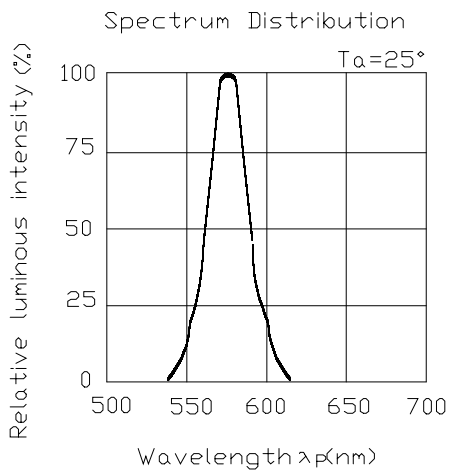
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Typical Electro-Optical Characteristic Curves:

(SYG)





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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 | 10 SEC | 76 PCS | 0/1 |
| 2 | Temperature Cycle | H : +100°C 15min ∫ 5 min L : -40°C 15min | 300 CYCLES | 76 PCS | 0/1 |
| 3 | Thermal Shock | H : +100°C 5min ∫ 10 sec L : -10°C 5min | 300 CYCLES | 76 PCS | 0/1 |
| 4 | High Temperature Storage | TEMP : 100°C | 1000 HRS | 76 PCS | 0/1 |
| 5 | Low Temperature Storage | TEMP : -40°C | 1000 HRS | 76 PCS | 0/1 |
| 6 | DC Operating Life | TEMP : 25°C IF = 20mA | 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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Packing Quantity Specification

- 1.1000PCS/1Bag , 4Bags/1Box
- 2.10Boxes/1Carton

Label Form Specification



- CPN: Customer's Production Number
- P/N : Production Number
- QTY: Packing Quantity
- CAT: Ranks
- HUE: Peak Wavelength
- REF: Reference
- LOT No: Lot Number
- MADE IN TAIWAN: Production Place

MADE IN TAIWAN

Notes

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