



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-026-246 REV: 1.1

3mm Round Small Flange Without stand-off LEDs, T-1

PART NO : 264-7GC ECN : _____ Page: 1/4

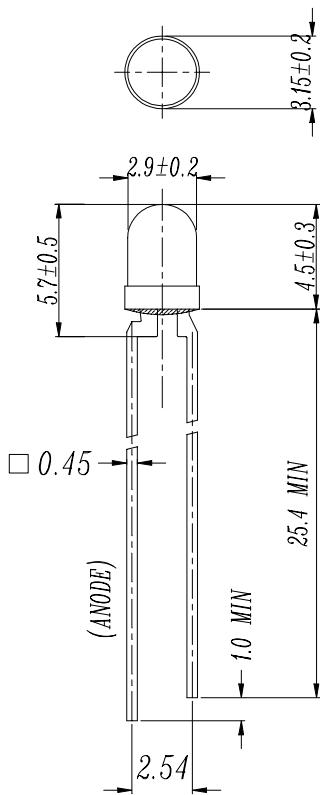
■ Features :

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

■ Descriptions :

- 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 ±0.25mm

| PART NO | Chip | | Lens Color |
|---------|----------|---------------|-------------|
| | Material | Emitted Color | |
| 264-7GC | GaP | Green | Water Clear |

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■ Absolute Maximum Ratings at Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|--|----------|-------------|------|
| Forward Current | IF | 30 | mA |
| Operating Temperature | Topr | -40 to +85 | °C |
| Storage Temperature | Tstg | -40 to +100 | °C |
| Soldering Temperature | Tsol | 260 ± 5 | °C |
| Power Dissipation | Pd | 100 | mW |
| Peak Forward Current(Duty 1/10 @ 1KHZ) | IF(Peak) | 160 | mA |
| Reverse Voltage | VR | 5 | V |

■ Electronic Optical Characteristics :

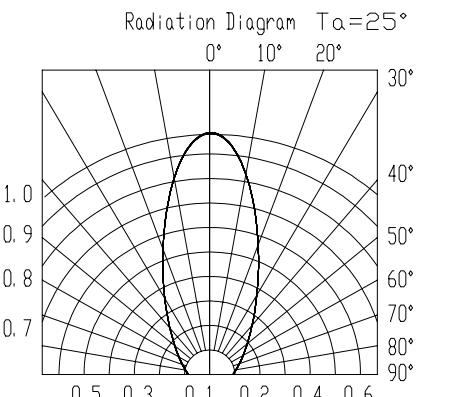
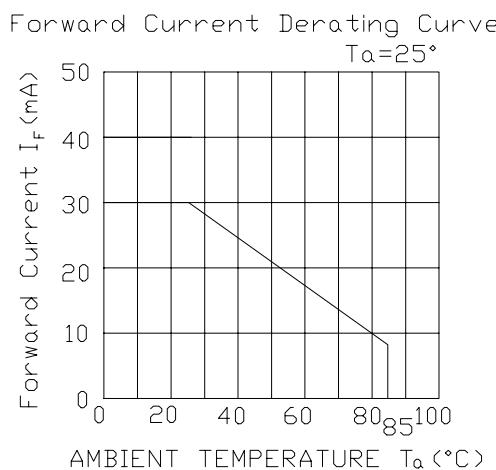
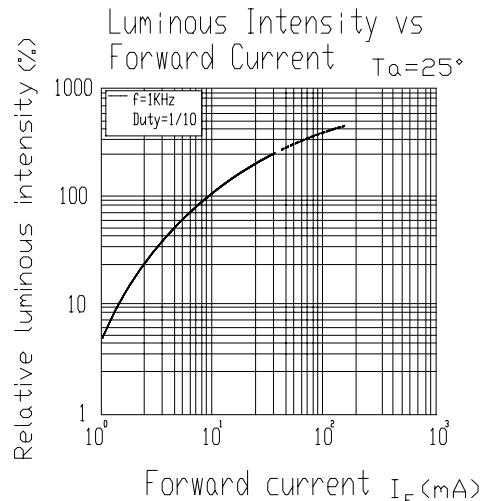
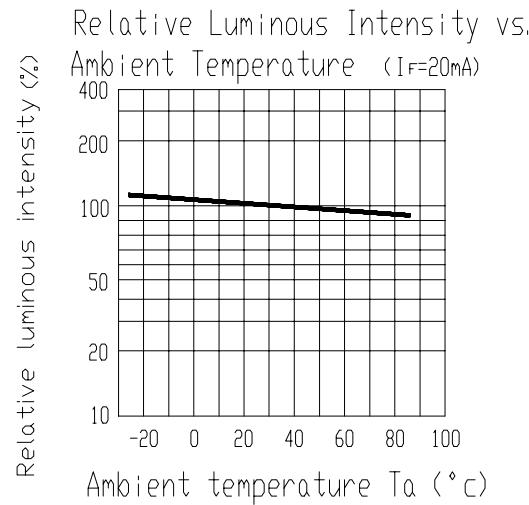
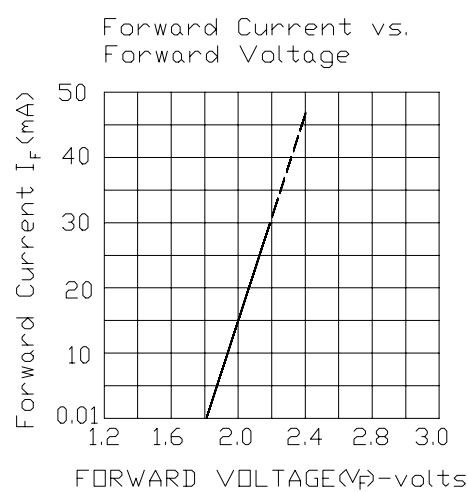
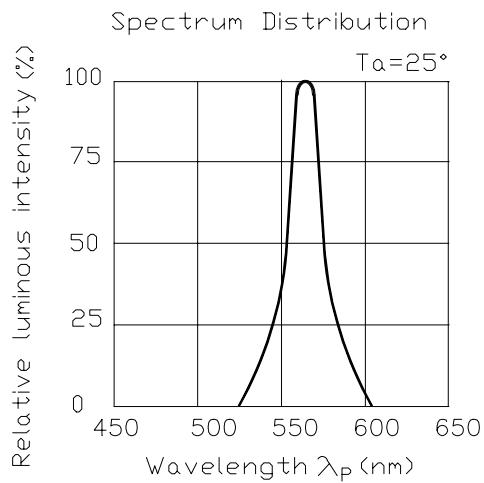
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|------------------------------|--------|-------|-------|-------|------|-----------|
| Luminous Intensity | Iv | 25 | 35 | ----- | mcd | IF=10mA |
| Viewing Angle | 2θ 1/2 | ----- | 40 | ----- | deg | IF=20mA |
| Peak Wavelength | λ p | ----- | 565 | ----- | nm | IF=20mA |
| Dominant Wavelength | λ d | ----- | 570 | ----- | nm | IF=20mA |
| Spectrum Radiation Bandwidth | △λ | ----- | 30 | ----- | nm | IF=20mA |
| Forward Voltage | VF | 1.7 | 2.1 | 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 : $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ | 5 SEC | 76 PCS | 0/1 |
| 2 | Temperature Cycle | H : $+85^{\circ}\text{C}$ 30min ↓ 5 min L : -55°C 30min | 50 CYCLES | 76 PCS | 0/1 |
| 3 | Thermal Shock | H : $+100^{\circ}\text{C}$ 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 | I _F = 20 mA | 1000 HRS | 76 PCS | 0/1 |
| 7 | High Temperature / High Humidity | 85°C/85% RH | 1000 HRS | 76 PCS | 0/1 |