

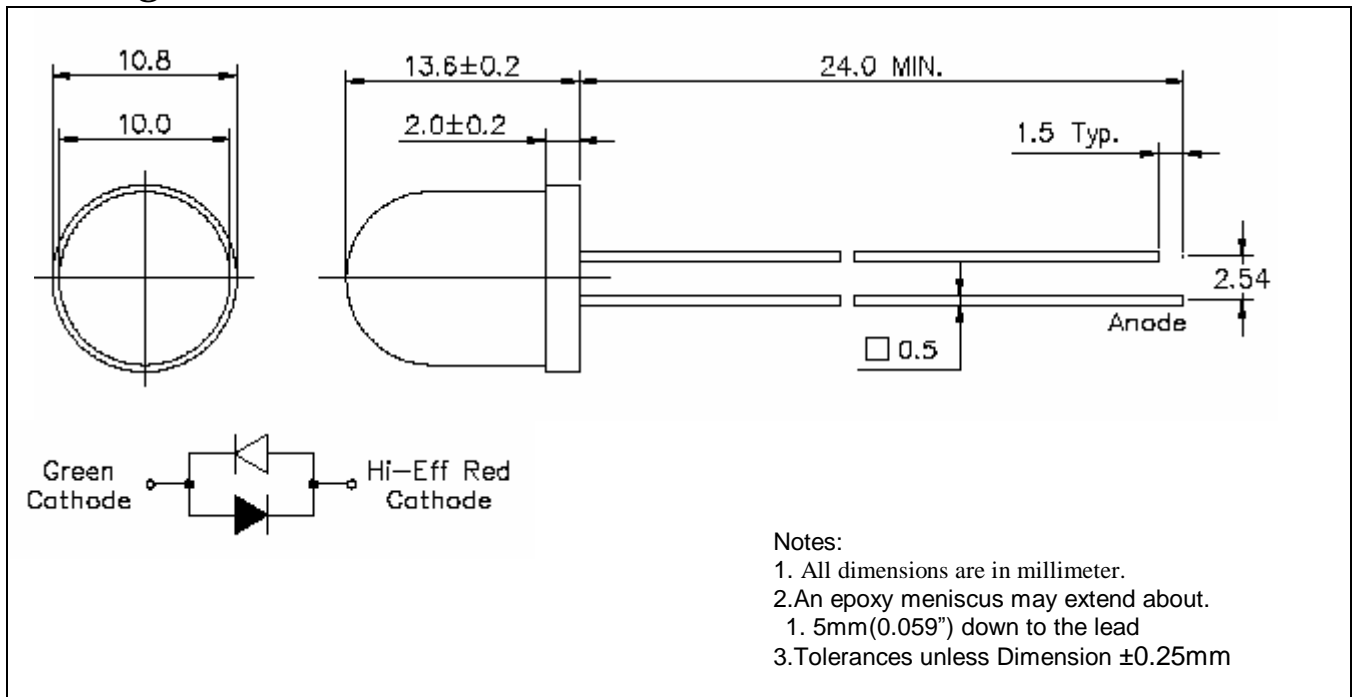
Part No. AL-107EGW-C

Diff No.

10 mm

Type

LED Lamps

**Package Dimension:****n Features:**

l Choice of various viewing angles.

l Available on tape and reel.

l Reliable and robust

**n Descriptions**

l The series is specially designed for application requiring higher brightness.

l The LED lamps are available with different colors, intensity, epoxy colors etc.

**n Applications:**

l TV set

l Monitor

l Telephone

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| PART NO.  | Chip      |               | Lens Color     |
|-----------|-----------|---------------|----------------|
|           | Material  | Emitted Color |                |
| AL-107EGW | GaAsP/GaP | ORANGE        | WHITE DIFFUSED |
|           | GaP       | GREEN         |                |

**n** Absolute Maximum Ratings at Ta=25°C

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

**n** Electronic Optical Characteristics :

| Parameter                    | Symbol | Min. | Typ. | Max. | Unit | Condition |         |
|------------------------------|--------|------|------|------|------|-----------|---------|
| Luminous Intensity           | IV     | E    | 2.5  | 10.0 | /    | mcd       | IF=10mA |
|                              |        | G    | 2.5  | 10.0 |      |           |         |
| Viewing Angle                | 2θ 1/2 | /    | 75   | /    | deg  | IF=20mA   |         |
| Peak Wavelength              | λ p    | E    | /    | 635  | /    | nm        | IF=20mA |
|                              |        | G    |      | 565  |      |           |         |
| Dominant Wavelength          | λ d    | E    | /    | 625  | /    | nm        | IF=20mA |
|                              |        | G    |      | 570  |      |           |         |
| Spectrum Radiation Bandwidth | Δ λ    | E    | /    | 45   | /    | nm        | IF=20mA |
|                              |        | G    |      | 30   |      |           |         |
| Forward Voltage              | VF     | E    | 1.7  | 2.0  | 2.4  | V         | IF=20mA |
|                              |        | G    | 1.7  | 2.1  | 2.4  |           |         |
| Reverse Current              | IR     | /    | /    | 10   | μ A  | VR=5V     |         |

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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                        | 5 SEC            | 76 PCS      | 0/1   |
| 2  | Temperature Cycle              | H:+85°C 30min<br>∩ 5min<br>L:-55°C 30min | 50 CYCLES        | 76 PCS      | 0/1   |
| 3  | Thermal Shock                  | H:+100°C 5min<br>∩ 10set<br>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              | TEMP :25°C<br>IF=20mA                    | 1000 HRS         | 76 PCS      | 0/1   |
| 7  | High Temperature/High Humidity | 85°C /85%RH                              | 1000 HRS         | 76 PCS      | 0/1   |

■ Typical Characteristics (The data typical , and the value is not guaranteed.)

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