

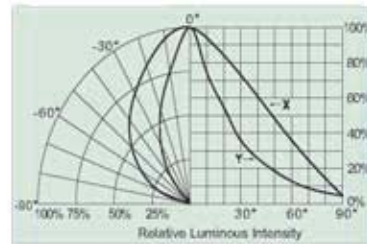
[3.1x3.9mm Oval Lamp]



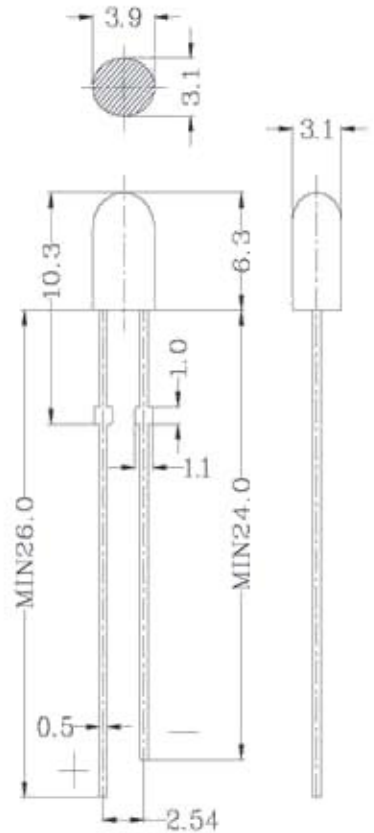
Characters

- Viewing angle 110° /50°
- For LED Screen
- UV resistant epoxy

Directive Characteristics



Package Outlines (Unit:mm)



General Tolerance: ±0.2
Unless note otherwise

Absolute Maximum Ratings (Ta=25°C)

| Parameter | Symbol | Value | | Unit |
|------------------------|-----------|------------|-----|------|
| | | Green/Blue | Red | |
| Power Dissipation | P_D | 100 | 125 | mW |
| DC forward Current | I_F | 30 | 50 | mA |
| Pulsed Forward Current | I_{FP} | 100 | 150 | mA |
| Reverse Voltage | V_R | 5 | 5 | V |
| Operating Temperature | T_{opr} | -30~+80 | | °C |
| Storage Temperature | T_{stg} | -40~+100 | | °C |

* Duty 1/10 Pulse Width 0.1ms

Electrical Optical Characteristics (Ta=25°C)

| Part Number | Material | Chip | | Emitted Color | Lens Type | IF(mA) | VF(V) | | IV(mcd) | |
|-----------------|--------------|-----------------|-----|---------------|-----------|--------|-------|-----|---------|------|
| | | Δp (nm) | | | | | Min | Max | Min | Max |
| | | Min | Max | | | | | | | |
| RL34N-UR514S/S1 | AlGaInP/GaAs | 625 | 635 | Ultra Red | Diffused | 20 | 1.7 | 2.8 | 400 | 700 |
| RL34N-GH714D/S1 | InGaIn/GaN | 515 | 525 | Pure Green | Diffused | 20 | 3.0 | 3.8 | 1500 | 2500 |
| RL34N-CB714D/S1 | InGaIn/GaN | 465 | 475 | Blue | Diffused | 20 | 3.0 | 3.8 | 300 | 600 |

Luminous Intensity Rank

| Luminous Intensity(mcd) | | | | | |
|-------------------------|---------|------------|-----------|------|---------|
| Ultra Red | | Pure Green | | Blue | |
| Rank | Data | Rank | Data | Rank | Data |
| F | 400-535 | K1 | 1500-2000 | E | 300-400 |
| F1 | 460-620 | L | 1750-2300 | E1 | 350-460 |
| G | 535-720 | L1 | 2000-2650 | F | 400-535 |

Package

Bulk-----500Pcs/bag
Taping-----3000Pcs/reel

Precautions in handling

1. When soldering, leave 2.0mm of minimum clearance between the resin and the soldering point.
2. Blue, Green and White products are so sensitive to ESD, that users required to handle with care.

Reliability Test

| No | Item | Test Condition | Test Hours/Cycles | Samples Tested | Acc./Rej |
|----|------------------------------------|----------------------------------|-------------------|----------------|----------|
| 1 | Room Temperature DC Operating Life | Ta=25°C,IF=20mA | 1000 Hrs | 76 | 0/1 |
| 2 | Thermal Shock | -10°C(5min)→(10sec)→+100°C(5min) | 100 Cycles | 76 | 0/1 |
| 3 | Temperature ycle | -40°C(30min)→(5min)→+85°C(30min) | 100 Cycles | 76 | 0/1 |
| 4 | High Temp./ High Humi. Test | 85°C/85%RH | 1000 Hrs | 76 | 0/1 |
| 5 | High Temperature Storage | Ta=100°C | 1000 Hrs | 76 | 0/1 |
| 6 | Low Temperature Storage | Ta= - 40°C | 1000 Hrs | 76 | 0/1 |
| 7 | Soldering Heat | 260°C ± 5°C | 5 Seconds | 76 | 0/1 |

Typical Electrical / Optical Characteristics Curves 25°C Ambient Temperature Unless Otherwise Noted)

