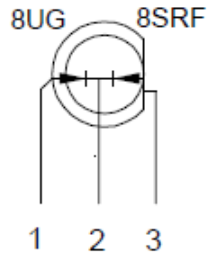


SPECIFICATIONS **CLB30R2G2WCC**
OUTLINES DIMENSIONS
DESCRIPTION

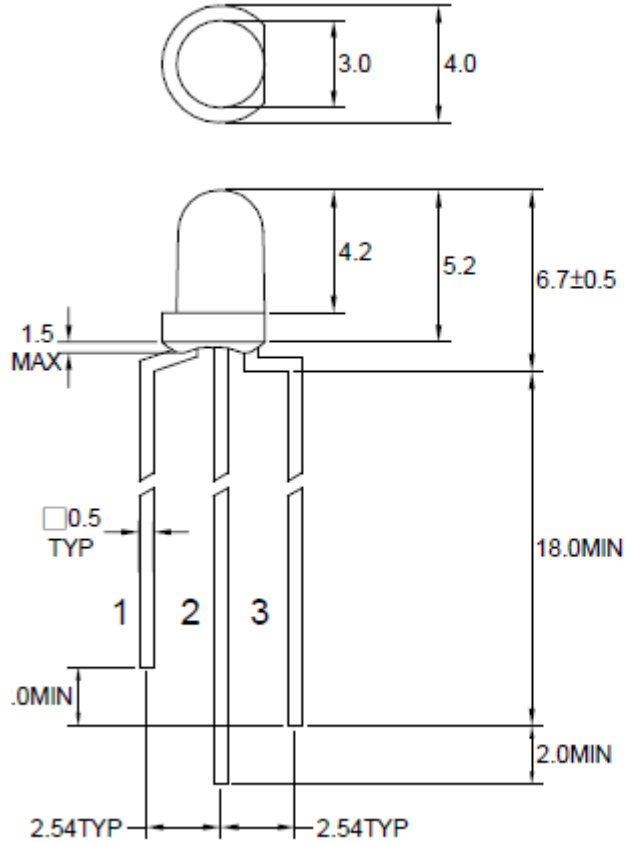
- * Round Type
- * 3mm Diameter
- * Lens Color: White Diffused
- * With Flange
- * Solder Leads Without Standoffs

FEATURES

- * Emitting Colors: Red/Green
- * Standard Luminous Intensity
- * Viewing Angle: 60 Deg



1. ANODE GREEN
2. COMMON CATHODE
3. ANODE RED


Notes:

1. All Dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.
3. Specifications are subject to change without notice.

| Part Number | Chip Material | Color of Emission | Lens Type | Viewing Angle |
|--------------|-----------------|-------------------|----------------|---------------|
| CLB30R2G2WCC | InGaAlP/InGaAlP | Red/Green | White Diffused | 60° |



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

| Parameter | Symbol | Max Rating | Unit |
|--|--------|------------|------|
| Power Dissipation | PD | 65 | mW |
| Pulse Current Forward Current | IFP | 75 | mA |
| Continuous Forward Current | IF | 25 | mA |
| Reverse Voltage | VR | 5 | V |
| Operating Temperature Range | TOPR | -40~+85 | °C |
| Storage Temperature Range | TSTG | -40~+100 | °C |
| IFP = Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 260 °C/ 5sec | | | |

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

| Parameter | Symbol | Test Condition | Color | Value | | | Unit |
|-------------------------|--------|----------------|-------|-------|-----|-----|------|
| | | | | Min | Typ | Max | |
| Luminous Intensity | IV | IF = 20mA | Red | 38 | 65 | - | mcd |
| | | | Green | 38 | 65 | - | |
| Forward Voltage | VF | IF = 20mA | RED | - | 2.0 | 2.4 | V |
| | | | Green | - | 2.2 | 2.6 | |
| Reverse Leakage Current | IR | VR = 5V | RED | - | - | 10 | µA |
| | | | Green | - | - | 10 | |
| Viewing Angle | 2θ1/2 | IF = 20mA | RED | - | 60 | - | deg |
| | | | Green | - | 60 | - | |
| Dominant Wavelength | λD | IF = 20mA | RED | - | 630 | - | nm |
| | | | Green | - | 574 | - | |

*Tolerance of viewing angle: -10 / +5 deg.



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OPTICAL CHARACTERISTIC CURVES (RED)

Fig.1 Forward current vs. Forward Voltage

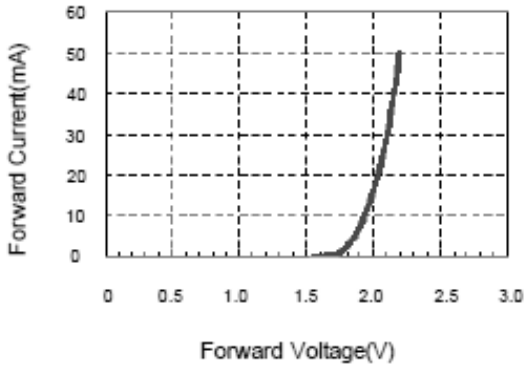


Fig.2 Relative Intensity vs. Forward Current

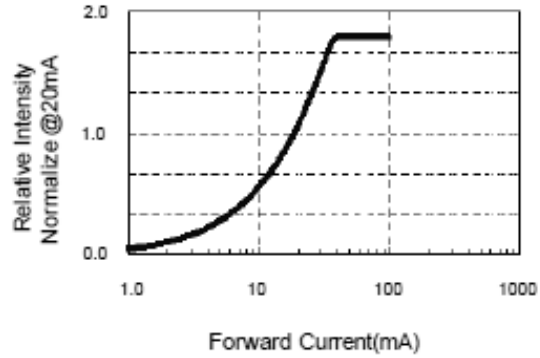


Fig.3 Forward Voltage vs. Temperature

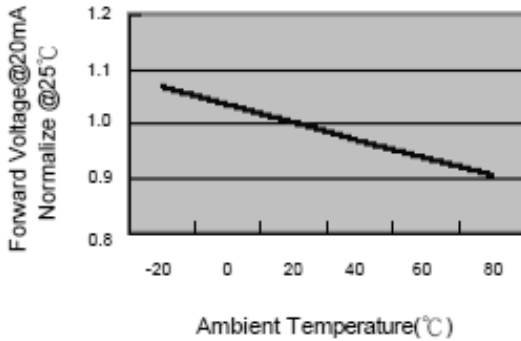


Fig.4 Relative Intensity vs. Temperature

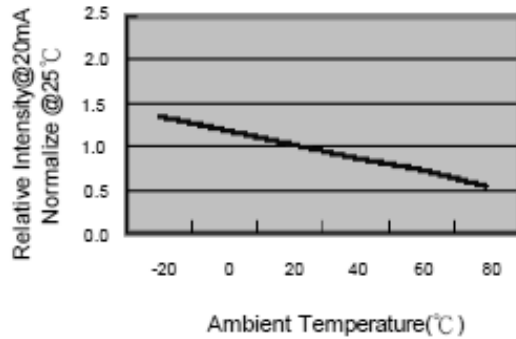
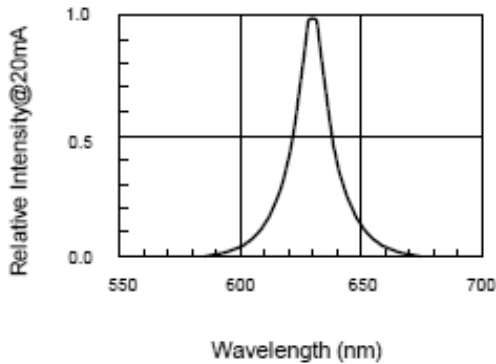


Fig.5 Relative Intensity vs. Wavelength



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OPTICAL CHARACTERISTIC CURVES (GREEN)

Fig.1 Forward current vs. Forward Voltage

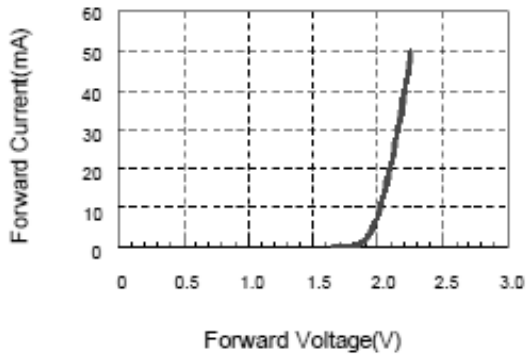


Fig.2 Relative Intensity vs. Forward Current

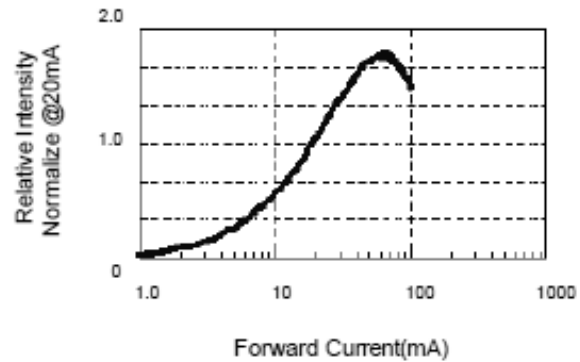


Fig.3 Forward Voltage vs. Temperature

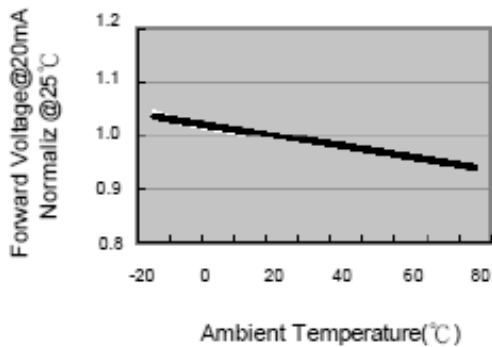


Fig.4 Relative Intensity vs. Temperature

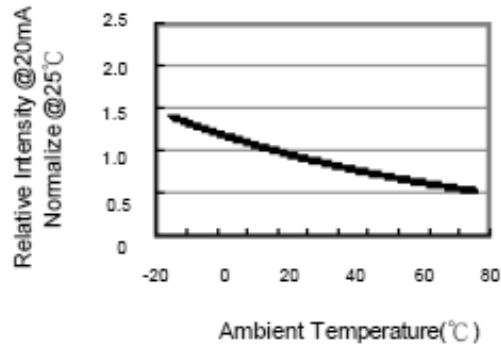
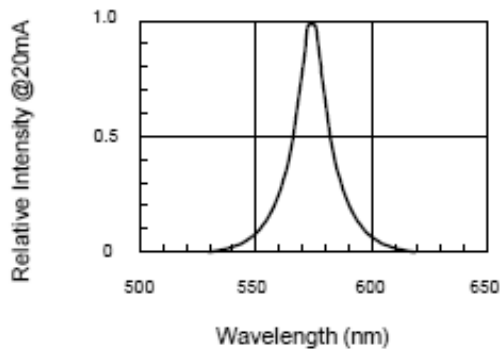


Fig.5 Relative Intensity vs. Wavelength

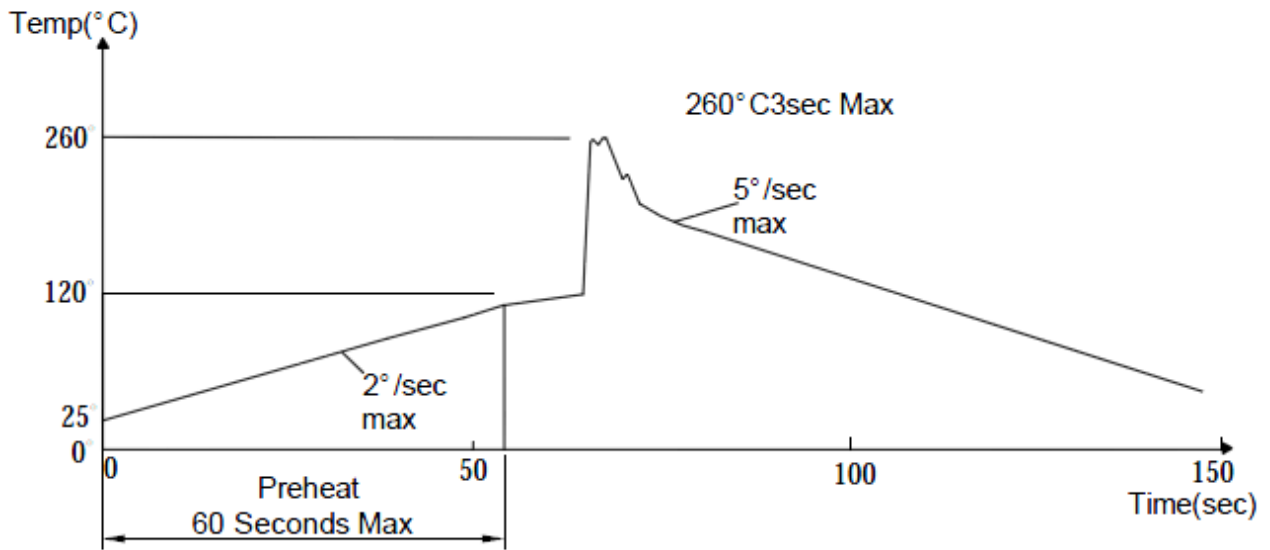


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SOLDERING CONDITIONS – LAMP TYPE LED

1. Iron
 Soldering Iron: 30W max
 Temperature: 350°C max
 Soldering Time: 3 seconds max(one time only)
 Distance: 2mm min(from solder joint to body)

2. Wave Soldering Profile
 Dip Soldering
 Preheat: 120°C max
 Preheat Time: 60 seconds max
 Ramp-up: 2°C/sec (max)
 Ramp-down: -5°C/sec (max)
 Solder Bath: 265°C±5°C max
 Dipping Time: 5 seconds max
 Distance: 2mm min(from solder joint to case)



Notes:

1. Wave solder should not be made more than one time
2. You can just only select one of the soldering conditions as above



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