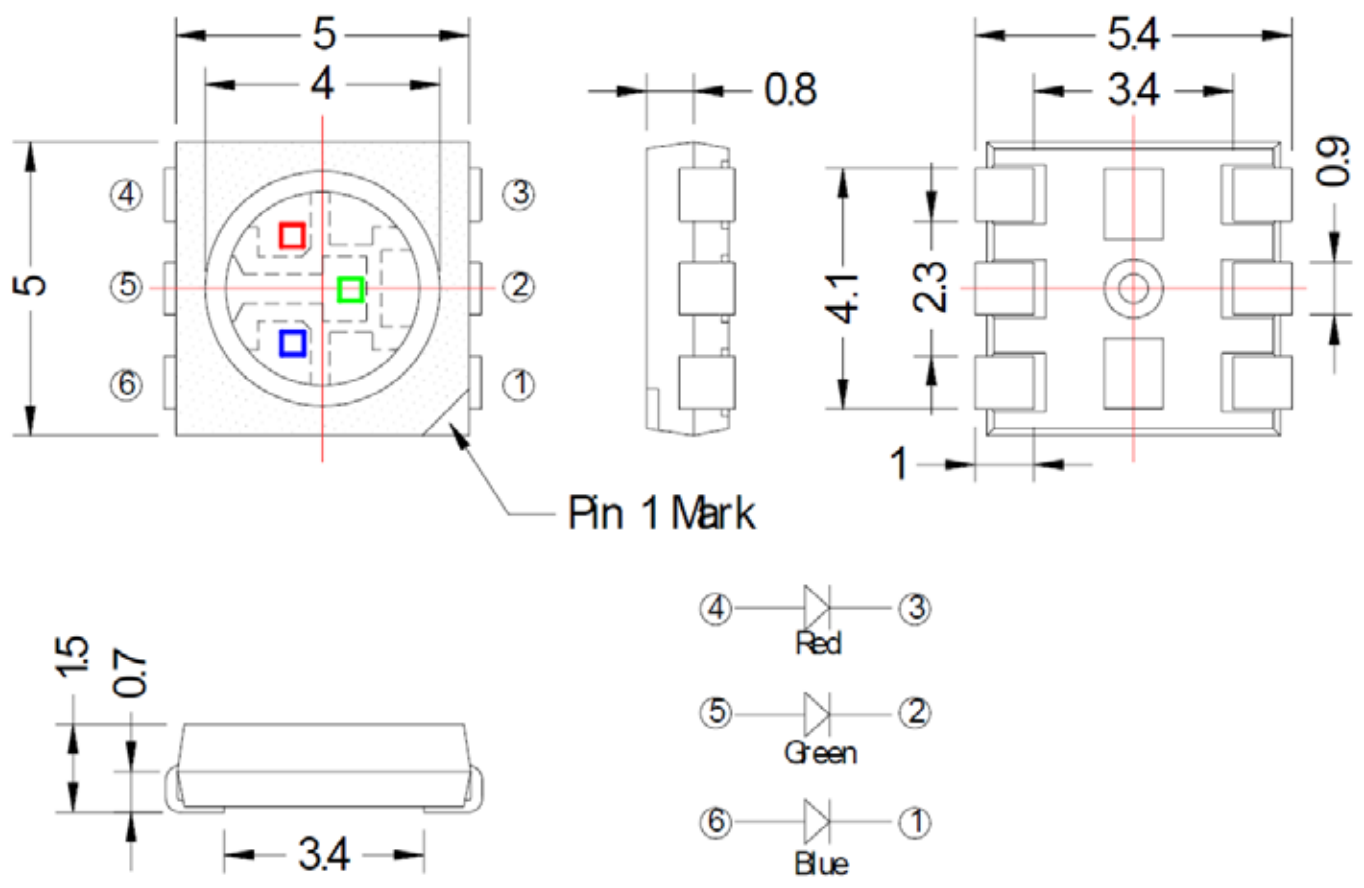


SPECIFICATION **CSPT224R2GT3B2C-6**
PACKAGE OUTLINES


- 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 |
|-------------------|---------------|-------------------|-------------|---------------|
| CSPT224R2GT3B2C-6 | InGaAIP | Red | Water Clear | 120° |
| | InGaN | Blue | Water Clear | 120° |
| | InGaN | Green | Water Clear | 120° |



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

| Parameter | Symbol | Max Rating | | Unit |
|---|--------|----------------|-----|------|
| | | Blue/ Green | Red | |
| Forward Current | IF | 25 | 30 | mA |
| Reverse Voltage | VR | 5 | 5 | V |
| Power Dissipation | Pd | 87.5 | 75 | mW |
| Operating Temperature Range | TOP | -30~+85 | | °C |
| Storage Temperature Range | TSTG | -40~+100 | | °C |
| Peak Pulsing Current (tp ≤ 10 μs, duty cycle = 0.005) | IFP | 100 | 100 | mA |

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

| Parameter | Symbol | Test Condition | Color | Value | | | Unit |
|-------------------------|--------|----------------|-------|-------|------|-----|------|
| | | | | Min | Typ | Max | |
| Luminous Intensity | Iv | IF = 20mA | Red | 300 | 600 | - | mcd |
| | | | Green | 1100 | 1600 | - | |
| | | | Blue | 180 | 300 | - | |
| Forward Voltage | VF | IF = 20mA | Red | - | 2.0 | 2.5 | V |
| | | | Green | - | 3.1 | 3.5 | |
| | | | Blue | - | 3.1 | 3.5 | |
| Viewing Angle at 50% Iv | 2θ1/2 | IF = 20mA | - | - | 120 | - | Deg |
| Dominant Wavelength | λD | IF = 20mA | Red | - | 625 | - | nm |
| | | | Green | - | 525 | - | |
| | | | Blue | - | 470 | - | |

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

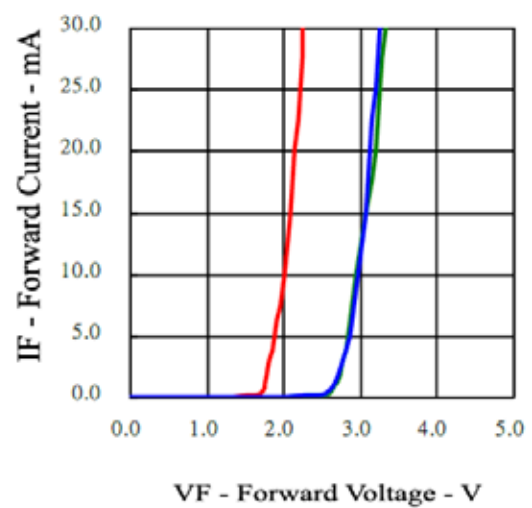
*Tolerance of forward voltage is +/- 0.05V

*Tolerance of luminous intensity +/- 1nm

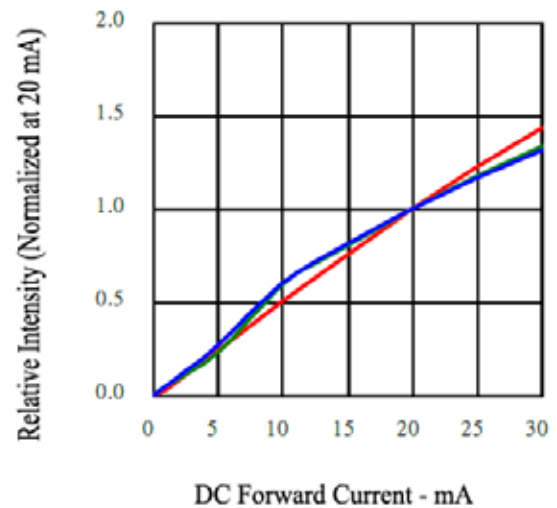

 ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES

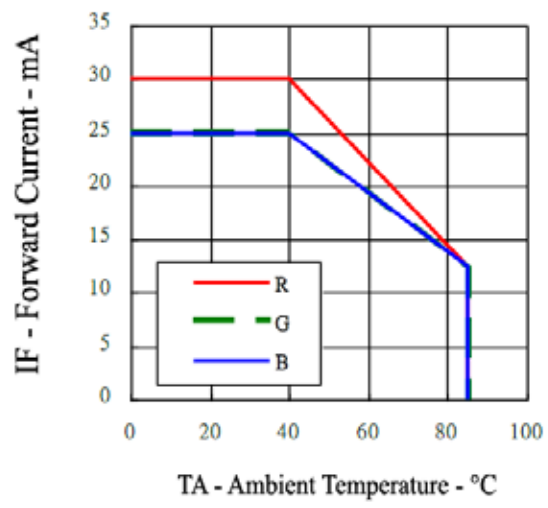
Forward Current vs. Forward Voltage



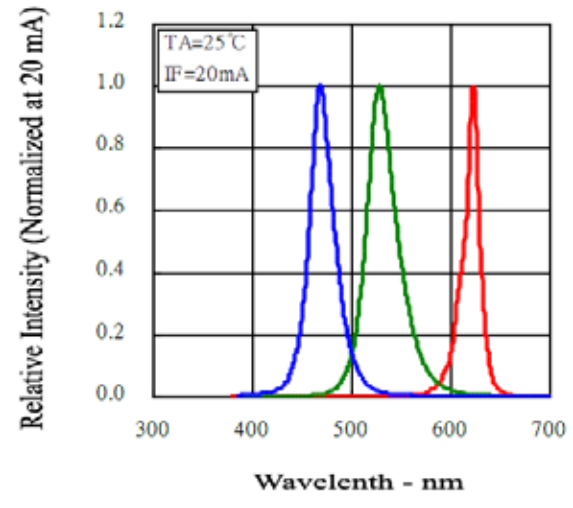
Relative Intensity vs. Forward Current



Forward Current vs. Ambient Temperature



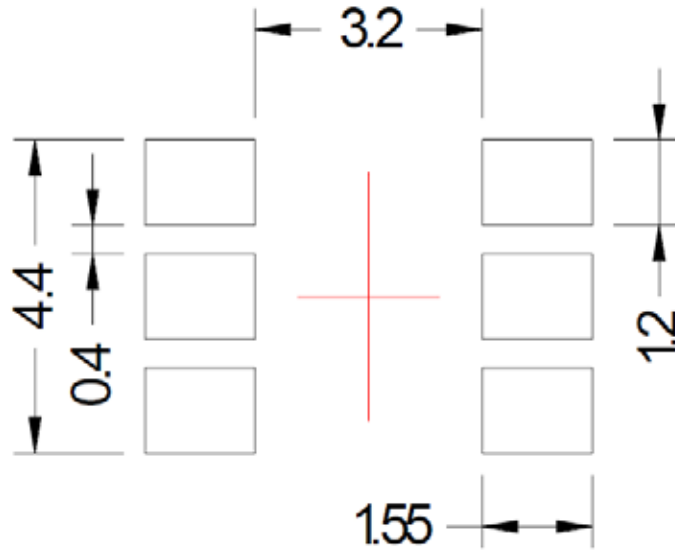
Relative Intensity vs. Wavelength



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

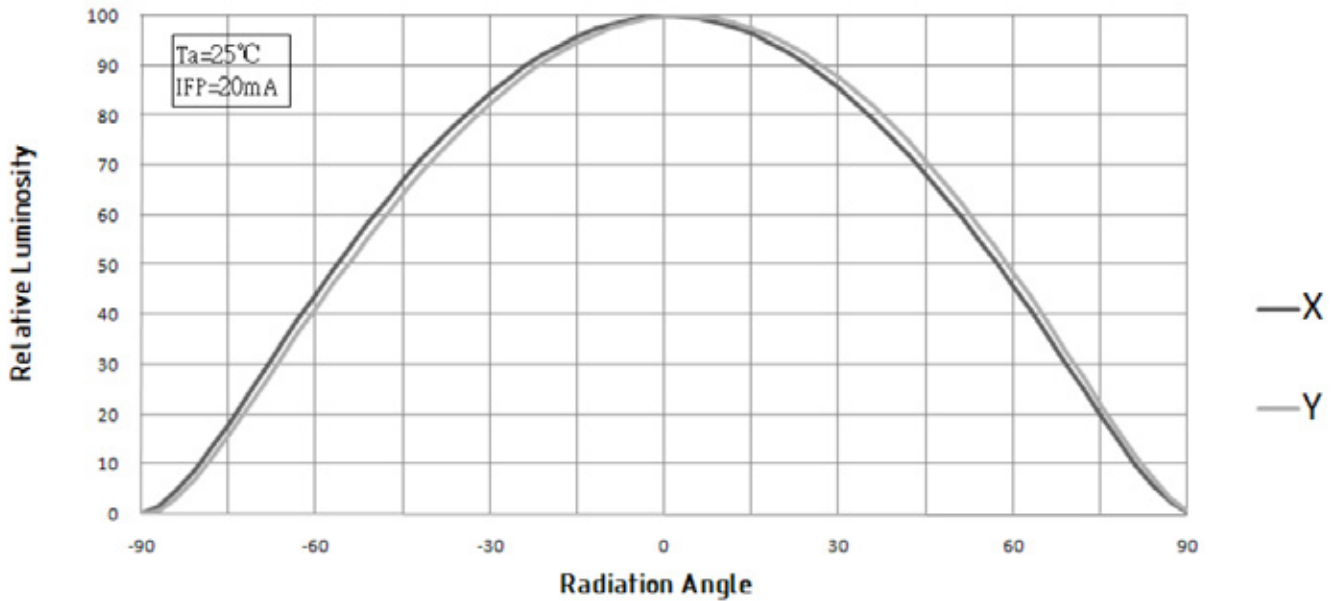
PATTERNS

RECOMMENDED SOLDERING PAD PATTERN



Notes: All dimensions are in millimeters

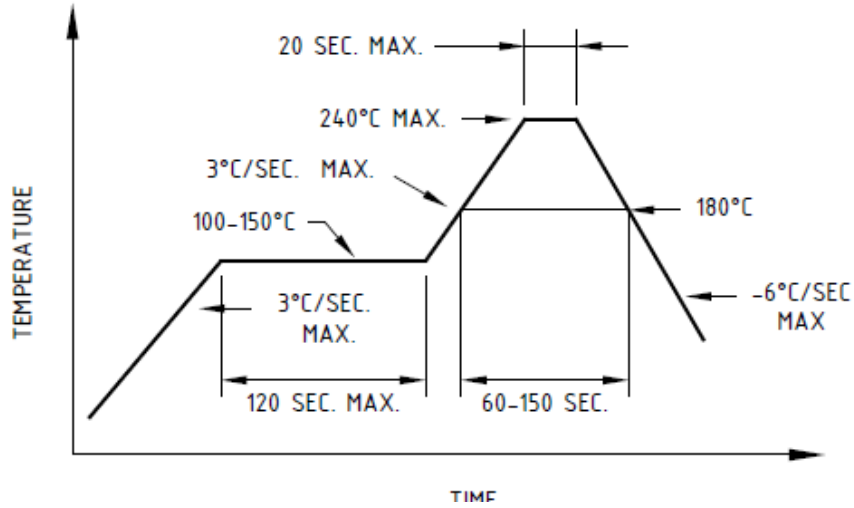
RADIATION PATTERN



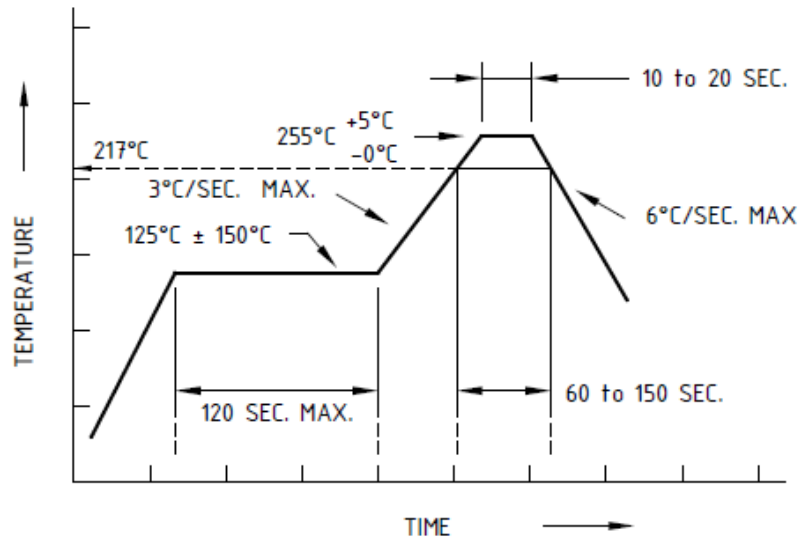
ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

SOLDERING CONDITIONS

- Recommended reflow soldering profile



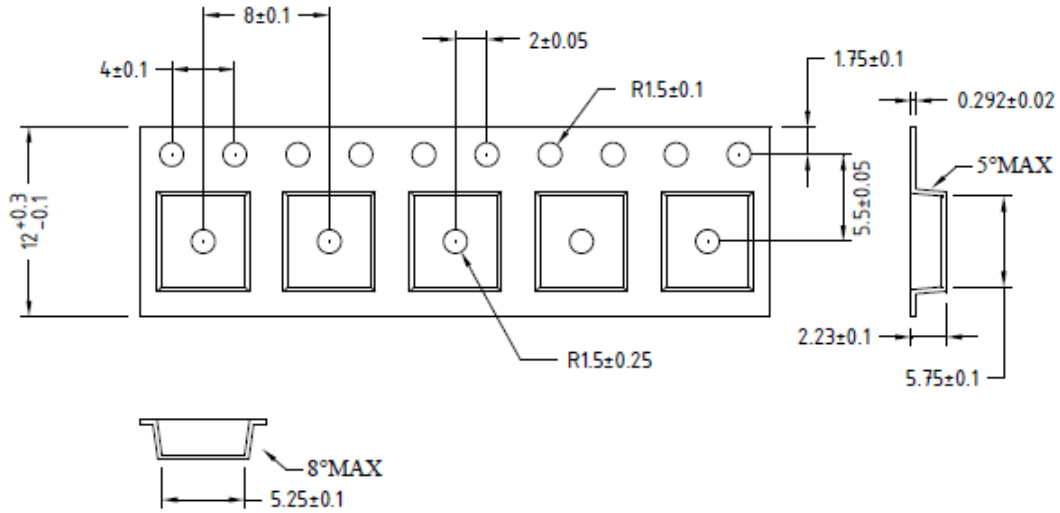
- Recommended Pb-free reflow soldering profile



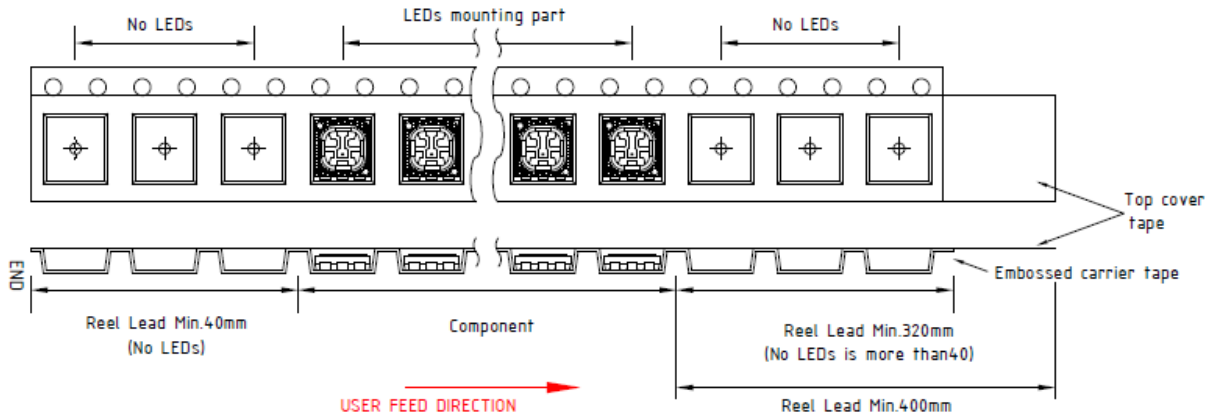
ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

REEL PACKAGING

- **Tape Dimension**



- **Tape Leader and Trailer Dimension**



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com