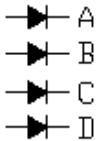
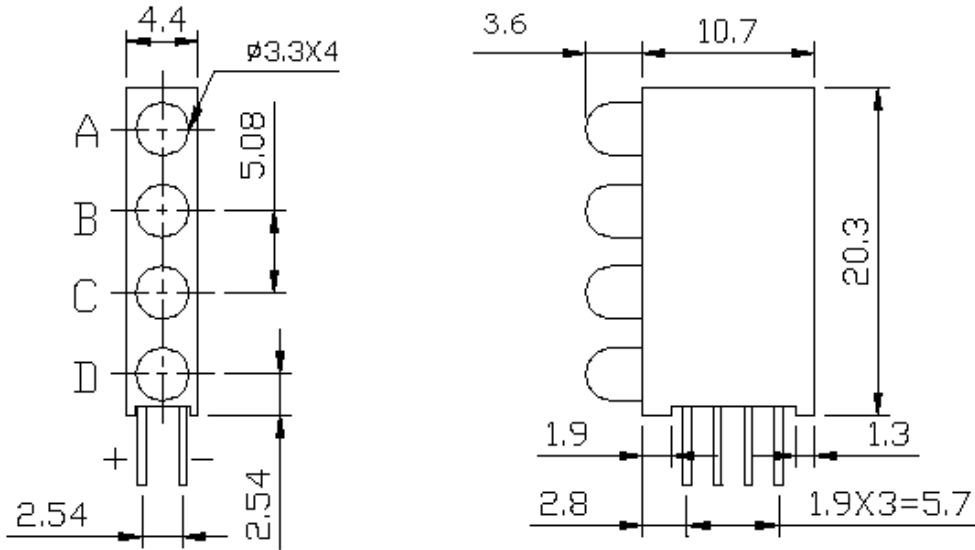


**SPECIFICATIONS** **CBQ33YYYYD**

**PACKAGE OUTLINES**



(STANDARD TYPE UT LEAD)

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

| Part Number | Chip Material | Color of Emission | Lens Type       | Viewing Angle |
|-------------|---------------|-------------------|-----------------|---------------|
| CBQ33YYYYD  | GaAsP/GaP     | Yellow            | Yellow Diffused | 60°           |



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](http://www.chromeled.com)

**ABSOLUTE MAXIMUM RATINGS**
**(TA=25°C)**

| Parameter                                 | Symbol           | Max Rating              | Unit |
|---|------------------|-------------------------|------|
| Forward current                           | I <sub>f</sub>   | 30                      | mA   |
| Reverse current @ 5V                      | I <sub>r</sub>   | 10                      | μA   |
| Power dissipation                         | P <sub>d</sub>   | 100                     | mW   |
| Operating temperature range               | T <sub>opr</sub> | -40~+80                 | °C   |
| Storage temperature range                 | T <sub>stg</sub> | -40~+100                | °C   |
| Peak pulsing current (1/10 duty f= 10KHz) | I <sub>fp</sub>  | 160                     | mA   |
| Soldering Temperature                     | T <sub>SOL</sub> | Max 260°C for 5 sec Max |      |

**OPTICAL-ELECTRICAL CHARACTERISTICS**
**(TA=25°C)**

| Parameter                           | Symbol            | Test Condition        | Value |      |     | Unit |
|-------------------------------------|-------------------|-----------------------|-------|------|-----|------|
|                                     |                   |                       | Min   | Typ  | Max |      |
| Wavelength at peak emission         | λ <sub>peak</sub> | I <sub>F</sub> = 20mA | -     | 585  | -   | nm   |
| Spectral half bandwidth             | Δλ                | I <sub>F</sub> = 20mA | -     | 30   | -   | nm   |
| Dominant wavelength                 | λ <sub>D</sub>    | I <sub>F</sub> = 20mA | -     | 588  | -   | nm   |
| Forward Voltage                     | V <sub>f</sub>    | I <sub>F</sub> = 20mA | 1.7   | 2.1  | 2.8 | V    |
| Luminous intensity                  | I <sub>v</sub>    | I <sub>F</sub> = 20mA | 2.5   | 12.5 | -   | mcd  |
| Viewing angle at 50% I <sub>v</sub> | 2Θ ½              | I <sub>F</sub> = 20mA | -     | 60   | -   | Deg  |

\*NOTE: 1. The forward voltage data did not including ±0.1V tolerance 2. The luminous intensity data did not including ±15% tolerance



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](http://www.chromeled.com)