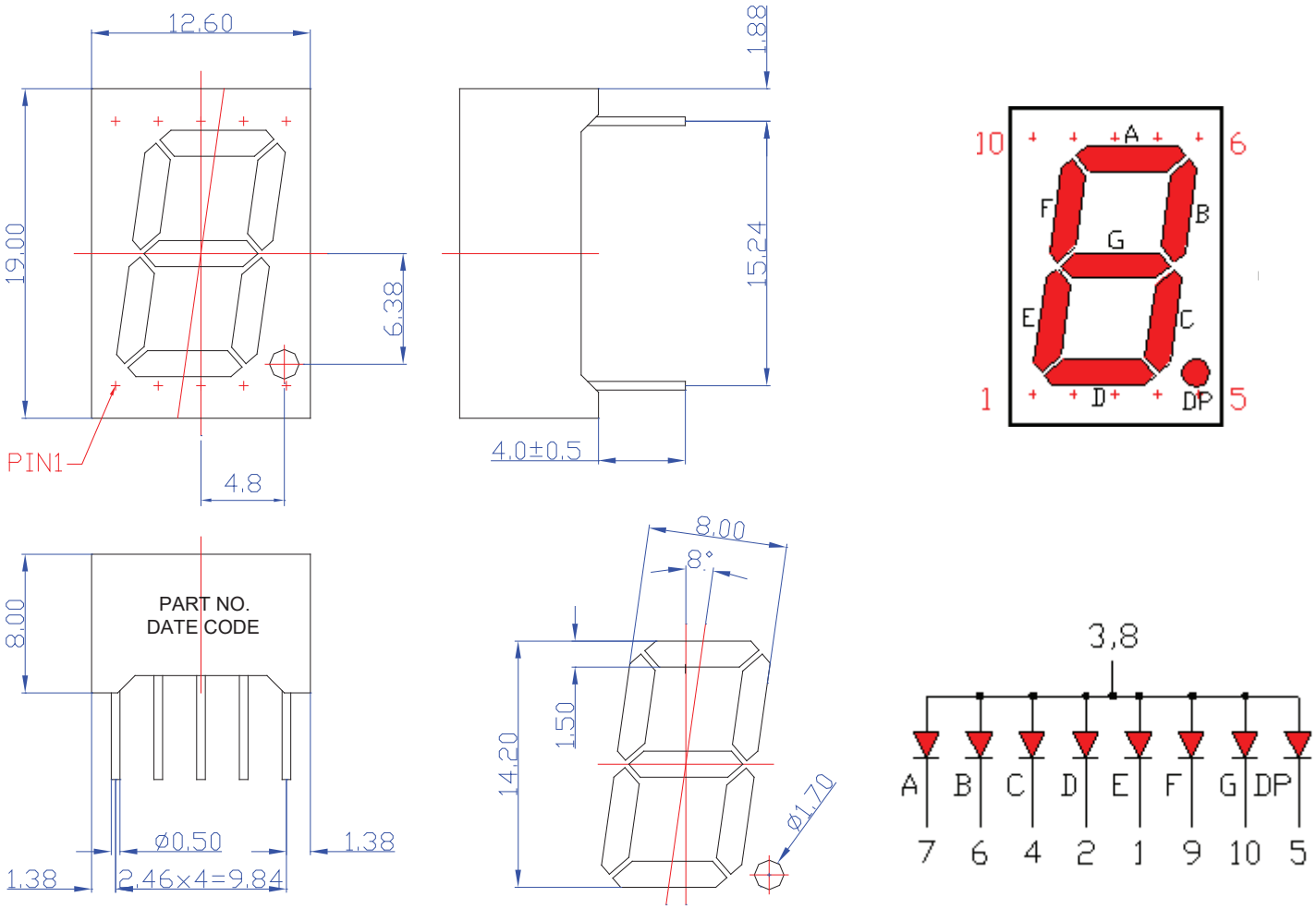
## SPECIFICATIONS CDSA56R2WF

### OUTLINES DIMENSIONS




Notes:
1. All Dimensions are in millimeters (inches).
2. Tolerance is ± 0.25mm (0.01”) unless otherwise noted.
3. Specifications are subject to change without notice.

| Part Number | Chip Material | Color of Emission | Lens Type | Description |
|---|---|---|---|---|
| CDSA56R2WF | InGaAlP | Red | White Segment | Common Anode |

RoHS Compliant Lead Free

*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 |
|---|---|---|---|
| Power Dissipation | $P_D$ | 70 | mW |
| Pulse Forward Current | $I_{FP}$ | 90 | mA |
| Continuous Forward Current | $I_F$ | 25 | mA |
| Reverse Voltage Segment | $V_R$ | 5 | V |
| Operating Temperature Range | $T_{OPR}$ | -25~+85 | °C |
| Storage Temperature Range | $T_{STG}$ | -25~+85 | °C |
| $I_{FP}$ = Pulse Width ≤ 10 ms, Duty Ratio ≤1/10. Soldering Condition: 260 °C/ 5sec | | | |

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

| Parameter | Symbol | Test Condition | Value | | | Unit |
|---|---|---|---|---|---|---|
| | | | Min | Typ | Max | |
| Luminous Intensity | $I_V$ | $I_F$ = 20mA | - | 60 | - | mcd |
| Forward Voltage | $V_F$ | $I_F$ = 20mA | - | 2.0 | 2.6 | V |
| Reverse Leakage Current | $I_R$ | $V_R$ = 5V | - | - | 10 | μA |
| Peak Wavelength | $\lambda_P$ | $I_F$ = 20mA | - | 632 | - | nm |
| Dominant Wavelength | $\lambda_D$ | $I_F$ = 20mA | - | 625 | - | nm |
| Spectral Radiation Bandwidth | $\Delta\lambda$ | $I_F$ = 20mA | - | 20 | - | nm |

RoHS Compliant Lead Free

*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*

## OPTICAL CHARACTERISTIC CURVES

(25 ℃ Free Air Temperature Unless Otherwise Specified)

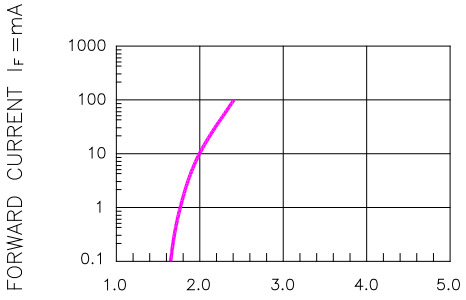



Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE

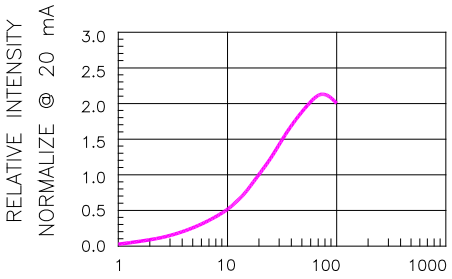



Fig.2 RELATIVE INTENSITY VS. FORWARD CURRENT

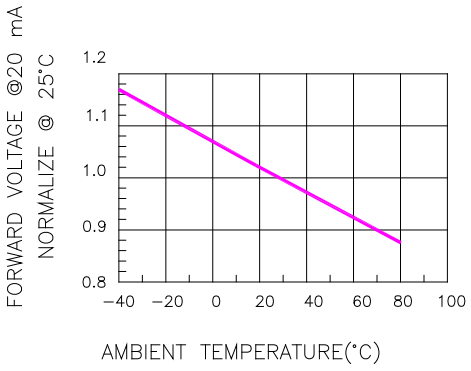



Fig.3 FORWARD VOLTAGE VS. TEMPERATURE

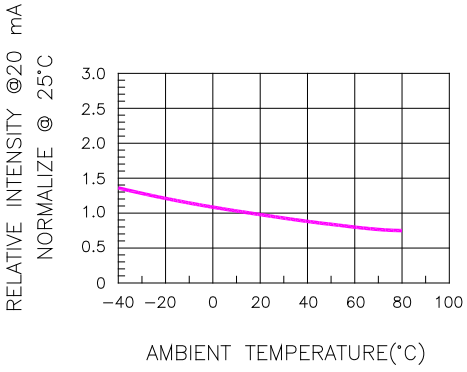



Fig.4 RELATIVE INTENSITY VS. TEMPERATURE

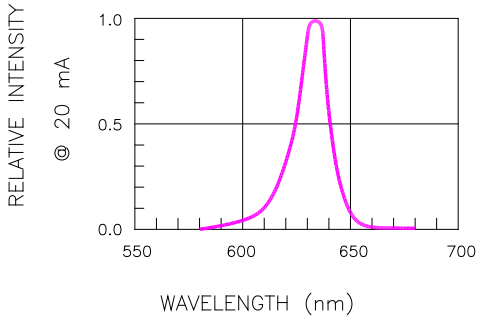



Fig.5 RELATIVE INTENSITY VS. WAVELENGTH

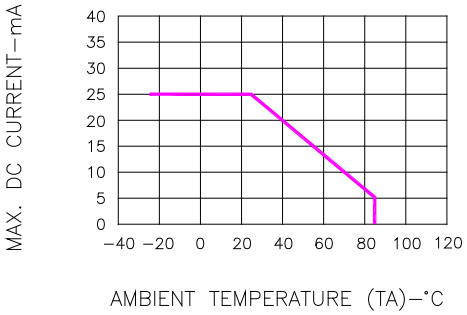
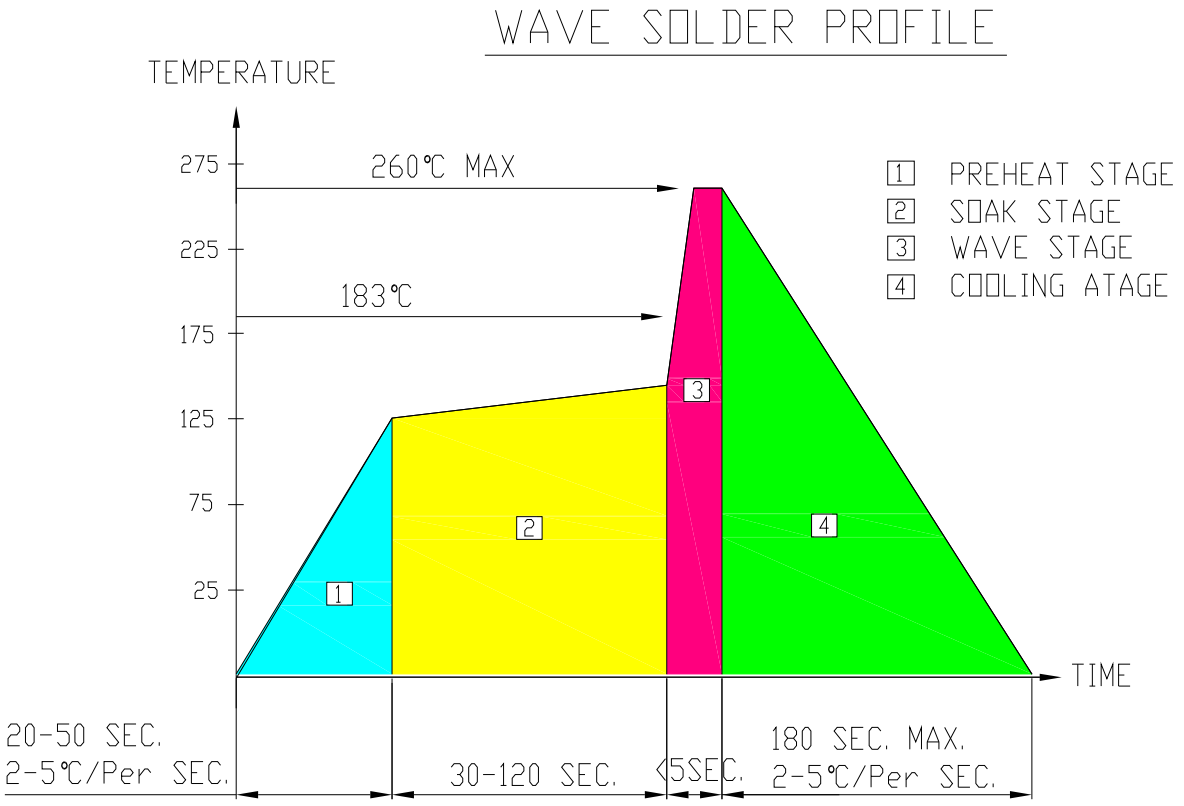



Fig.6 MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE

*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 – DISPLAY TYPE LED

## RECOMMEND SOLDERING PROFILE




## SOLDERING IRON

Basic spec is ≦4 sec when 260°C. If temperature is higher, time should be shorter (+10°C→1 sec). Power dissipation of Iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C.

## REWORK

Customer must finish rework within ≦4 sec under 245℃.

RoHS Compliant Lead Free

*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*