



YETDA INDUSTRY LTD.

Technical Data Sheet

MODEL NO : 157UR/ANG/ANB4

1210Package 3.2*2.7mm Chip LEDs

Features :

- Package in 8mm tape on 7" diameter reel
- Compatible with automatic placement equipment
- Compatible with reflow solder process
- Using patent blue chip

Applications :

- Indicators
- Automotive : backlighting in dashboard and switch
- Backlight for LCD

| Dice material | Emitted color | Lens Color |
|---------------|---------------|-------------------|
| AlGaInP/GaAs | Red | Water transparent |
| InGaN | Green | |
| InGaN | Blue | |

Electrical/Optical Characteristics(Ta=25°C)

| Parameter | Test Condition | Symbol | Value | | | Unit | |
|-----------------------------|----------------|------------------|-------|-----|-----|---------|-----|
| | | | Min | Typ | Max | | |
| Wavelength at peak emission | If=20mA | λ peak | R | -- | 630 | -- | nm |
| | | | G | -- | 520 | -- | |
| | | | B | -- | 465 | -- | |
| Spectral half bandwidth | If=20mA | $\Delta \lambda$ | R | -- | 18 | -- | nm |
| | | | G | -- | 35 | -- | |
| | | | B | -- | 25 | -- | |
| Dominant wavelength | If=20mA | λ dom | R | 615 | 620 | 630 | nm |
| | | | G | 520 | 525 | 530 | |
| | | | B | 465 | 470 | 475 | |
| Forward voltage | If=20mA | Vf | R | 1.7 | 2.0 | 2.5 | V |
| | | | G | 2.8 | 3.1 | 3.7 | |
| | | | B | 2.8 | 3.1 | 3.7 | |
| Luminous intensity | If=20mA | Iv | R | 80 | 160 | 250 | mcd |
| | | | G | 320 | 470 | 800 | |
| | | | B | 40 | 90 | 160 | |
| Viewing angle at 50% Iv | If=10mA | 2θ 1/2 | -- | 140 | -- | Deg | |
| Reverse current | Vr=5V | Ir | -- | -- | 10 | μ A | |

2010/05/07



YETDA INDUSTRY LTD.

Absolute Maximum Ratings(Ta=25°C)

| Parameter | Symbol | Value | | | Unit |
|--|--------|----------|-----|-----|------|
| | | O | G | B | |
| Power dissipation | Pd | 75 | 111 | 111 | mW |
| Forward current | If | 30 | | | mA |
| Reverse voltage | Vr | 5 | | | V |
| Operating temperature range | Top | -40 ~+80 | | | °C |
| Storage temperature range | Tstg | -40 ~+85 | | | °C |
| Peak pulsing current (1/8 duty f=1kHz) | Ifp | 125 | | | mA |

PACKAGING DIMENSIONS

