



TOYO LED ELECTRONICS LIMITED

Room 1610, Hong Kong Plaza, 188 Connaught Road West, Hong Kong.

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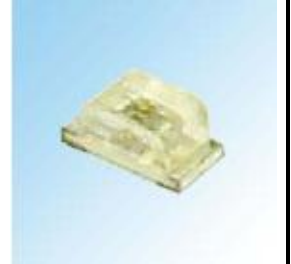


P/N: TY-L0805PG1(0.80)

0805 Package 2.0*1.25mm Surface Mount LEDs Series

◆ Features:

- 2.0*1.25*0.8 mm
- Mono-color type
- Soldering methods :All SMT assembly methods
- Comply ROHS standard



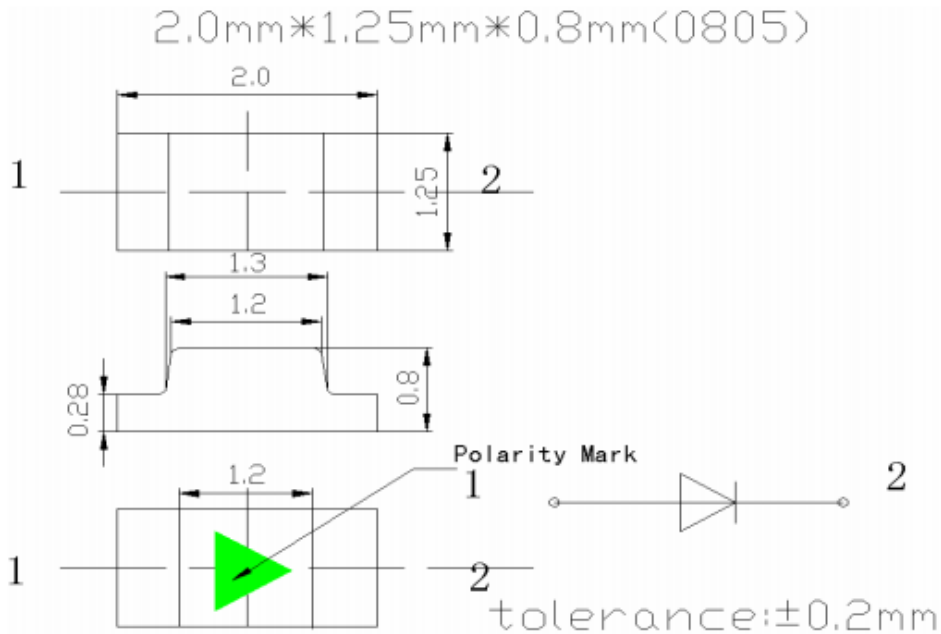
◆ Description

The Pure Green source color devices are made with **InGaN** on sapphire Light Emitting Diode.

◆ Application

- Optical indicator
- Indicator and backlighting in telephone and fax
- Flat backlight for LCD, switch and symbol
- Light pipe application
- General use

◆ Package Dimensions



NOTES:

1. All dimensions are in millimeter[unit];
2. Tolerance is ±0.05mm unless other specified;
3. Specifications are subject to change without notice.



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| Part No. | Emitted Color | Len's Color | Chip Material |
|-------------------|---------------|-------------|---------------|
| TY-L0805PG1(0.80) | Pure Green | Water clear | InGaN |

✧ Absolute Maximum Ratings(Ta=25°C)

| Item | Symbol | Maximum | Unit |
|---|-------------------|----------------------|------|
| Power Dissipation | PD | 105 | mW |
| Continuous Forward Current | I _{Fmax} | 30 | mA |
| Peak Forward Current(1/10 Duty Cycle 0.1ms Pulse Width) | I _{FP} | 100 | mA |
| Reverse Voltage | V _R | 5 | V |
| Operating Temperature Range | T _{opr} | -40 to+85 | °C |
| Storage Temperature Range | T _{stg} | -40 to+85 | °C |
| Lead Solder Temperature | Tsol | 260 °C for 3 seconds | |

✧ Electrical/Optical Characteristics(Ta=25°C)

| Item | Symbol | Condition | Min. | Typ. | Max | Unit |
|--------------------|-------------------|----------------------|------|------|-----|------|
| Forward Voltage | V _F | I _F =20mA | 2.8 | --- | 3.4 | V |
| Luminous Intensity | I _v | I _F =20mA | 250 | 300 | --- | mcd |
| Wavelength | λ | I _F =20mA | 515 | 517 | --- | nm |
| Viewing Angle | 2θ _{1/2} | I _F =20mA | -- | 120 | -- | Deg |
| Reverse Current | I _R | V _R =5V | -- | 5 | 10 | uA |



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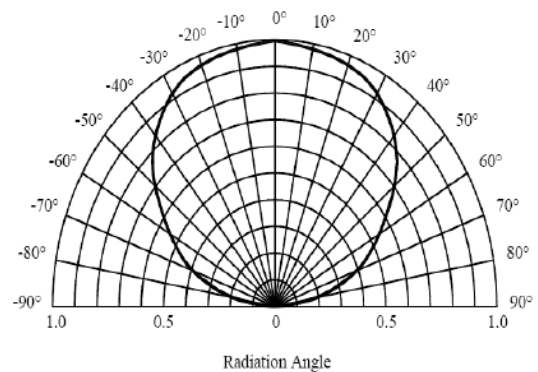
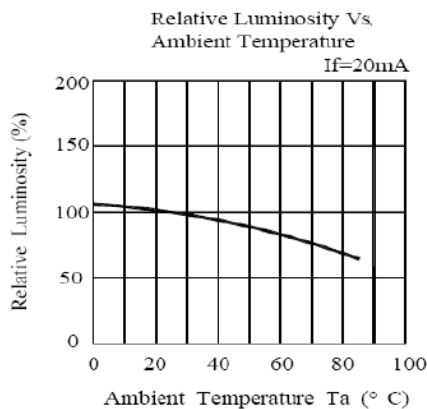
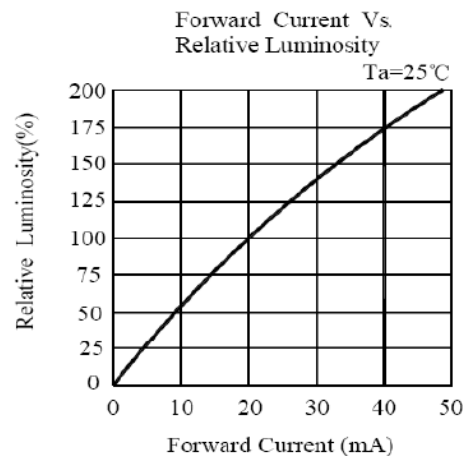
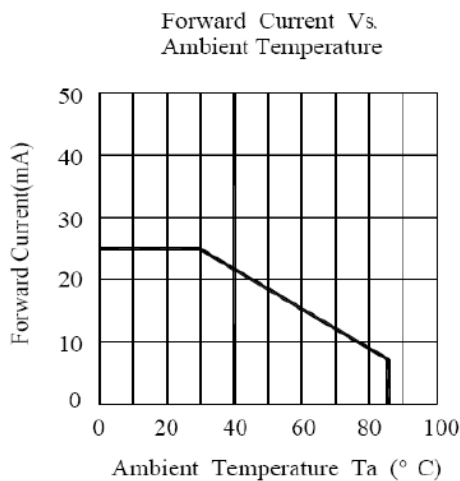
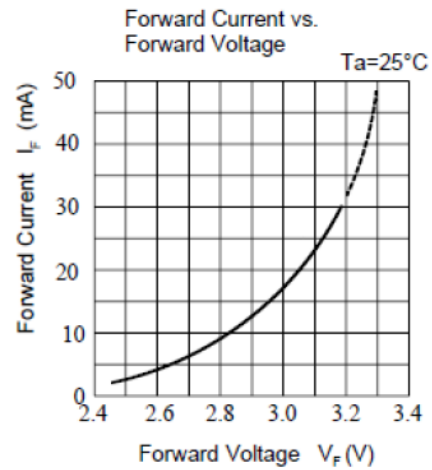
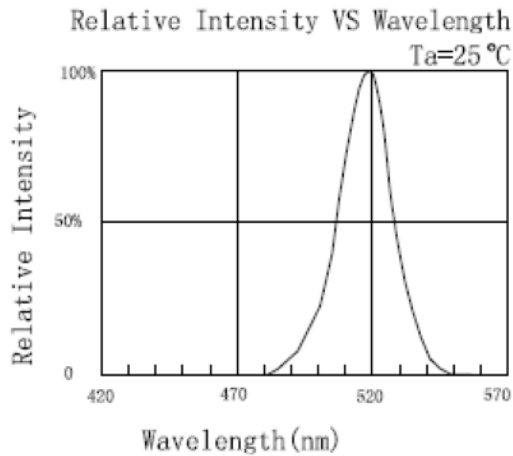
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◇ Typical Electro-Optical Characteristics Curves





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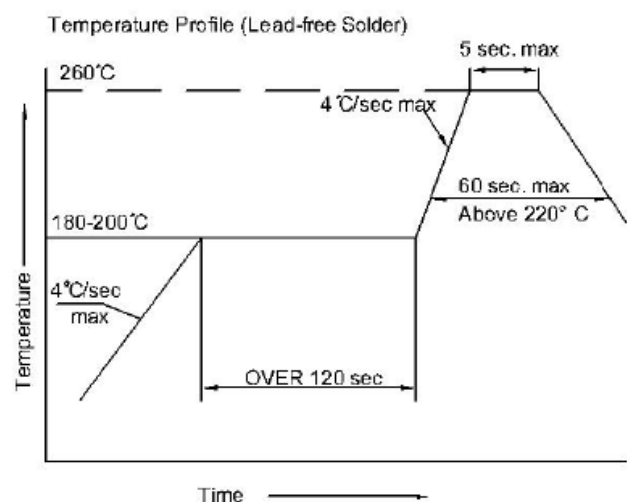
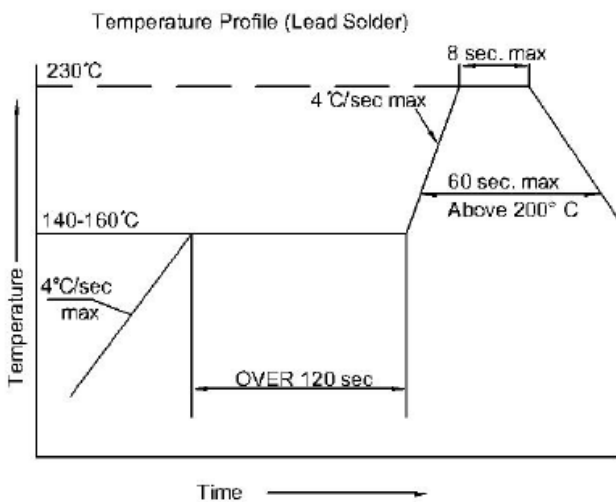
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◇ Reliability Test Items And Conditions

| NO. | Item | Test Condition | Test Hr/cycle/time | Sample Q'ty | Ac/Re |
|-----|-------------------------|--|--------------------|-------------|-------|
| 1 | Reflow | TEMP:260±5°C; Min.5Sec | 6 min | 22pcs | 0/1 |
| 2 | Temperature Cycle | H:+100°C 15mins To(5mins) L:-40°C 15mins | 300 cycles | 22pcs | 0/1 |
| 3 | Thermal Shock | H:+100°C 15mins To(5mins) L:-40°C 15mins | 300 cycles | 22pcs | 0/1 |
| 4 | Low Temperature Storage | TEMP:-40°C | 1000hrs | 22pcs | 0/1 |
| 5 | DC Operating Life | IF=20MA | 1000hrs | 22pcs | 0/1 |
| 6 | High Temperature | 85°C | 1000hrs | 22pcs | 0/1 |
| 7 | High Humidity | 85%R.H. | 1000hrs | 22pcs | 0/1 |

◇ SMT Reflow Soldering Instructions

Number of reflow process shall be than 2 times and cooling
 Process to normal temperature is required between first and second
 soldering process





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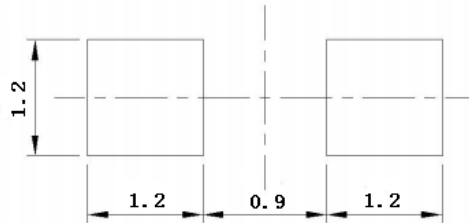
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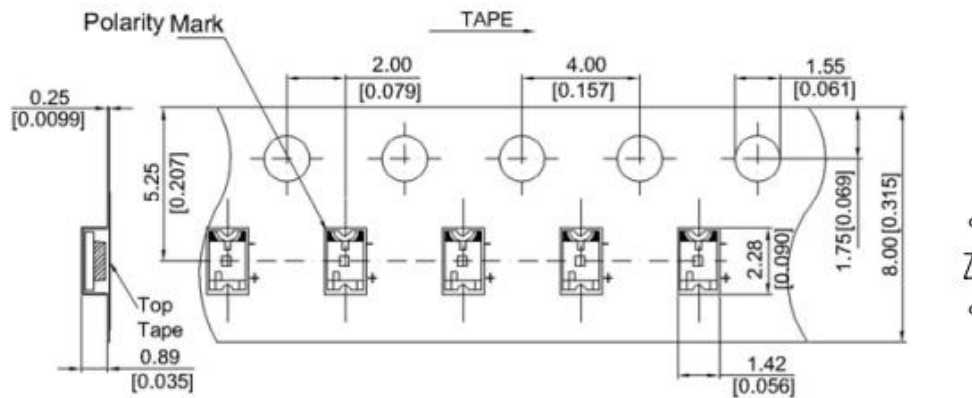
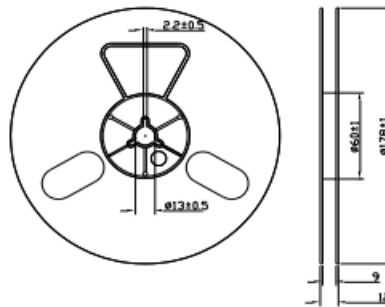
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❖ Recommended Soldering Pad Dimensions



❖ Tape Specification: 3,000PCS per reel



❖ Package Label

| | |
|---|------------|
| SMD LED | |
| PART NO: _____ | QA Pass |
| LOT NO : _____ | |
| Q' TY : _____ | |
| VF : _____ IV : _____ | |
| WL : _____ BIN: _____ | Pb |
| DATA : _____ | |
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❖ Package & Shipping Instructions

