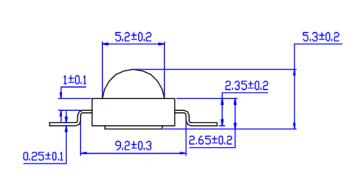
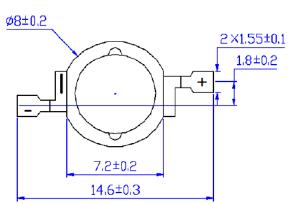
YETDA INDUSTRY LTD.

3W HIGH POWER LED (EMITTER) 1081E

| 1001L | | | | |
|--|--|--|--|--|
| Features | Applications | | | |
| * Long operating life | * Reading lights (car, bus, aircraft) | | | |
| * Highest flux | * LCD Backlights/light Guides | | | |
| * Lambertian radiation pattern | * Fiber optic alternative/ Decorative Entertainment | | | |
| * More energy efficient than incandescent and most halogen lamps | * Mini-accent/Up lighters/Down lighters/ Orientation | | | |
| * Low voltage DC operated | * Indoor/Outdoor commercial and Residential Architectural | | | |
| * Cool beam, safe to the touch | * Cove/Under shelf/Task | | | |
| * Instant light (less than 100ns) | * Bollards/Security/Garden | | | |
| * Fully dimmable | * Portable (flashlight, bicycle) | | | |
| * No UV | * Edge-lit signs (Exit, point of sale) | | | |
| * Superior ESD protection | * Automotive Exit (Stop-Tail-Turn,CHMSL, Mirror Side Repeat) | | | |
| * Eutectic die bonding | * Traffic signaling / Beacons / RailCrossing and Wayside | | | |
| | | | | |

PACKAGE







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Typical Optical/ Electrical Characteristics @TJ=25 °C

| Item | Symbol | Condition | Min. | Тур. | Max. | Unit |
|--------------------------------------|--------|-----------|------|------|------|-------|
| Forward Voltage | VF | IF=700mA | 1.6 | | 2.0 | V |
| Reverse Current | IR | VR=5v | | | 50 | uA |
| 50% Power Angle | 201/2 | IF=700mA | | 140 | | deg |
| Luminous Flux | φV | IF=700mA | | | 1 | Lm |
| Recommend Forward Current | IF | | | 700 | | mA |
| Wavelength | λd | IF=700mA | 845 | 850 | 855 | nm |
| Thermal Resistance, Junction to Case | RJP | IF=700mA | | 10 | | °C.⁄w |

Notes:

- 1. Tolerance of measurement of forward voltage±0.1V.
- 2. Tolerance of measurement of peak Wavelength±2.0nm.
- 3. Tolerance of measurement of luminous intensity±15%.

Absolute Maximum Rating

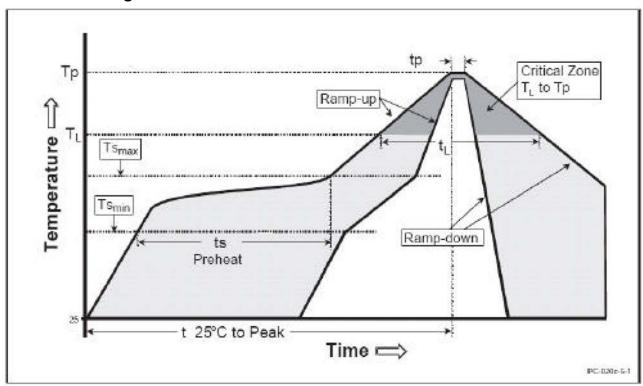
| Item | Symbol | Absolute Maximum Rating | Unit |
|-----------------------------|--------|-------------------------|------------|
| Forward Current | lf | 700 | mA |
| Reverse Voltage | VR | 5 | V |
| Electrostatic discharge | Esd | ±4500 | V |
| Operation Temperature | Topr | -30~+60 | °C |
| Storage Temperature | Тѕтс | -40~+90 | °C |
| Lead Soldering Temperature* | TsoL | Max. 260 °C | for 3sec M |

- *IFP Conditions: Pulse Width≤10msec duty≤1/10
- * All high power emitter LED products mounted on aluminum metal-core printed circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.
- * Re-flow, wave peak and soak- stannum soldering etc.is not suitable for this products.
- * Suggest to solder it by professional high power LED soldering machine.
- * Can use invariable-temperature searing-iron with soldering condition:≤260 degree less than 3 seconds.



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Reflow Soldering Characteristics



| Profile Feature | Pb-Free Assembly |
|--|------------------|
| Preheat | |
| - Temperature Min (Tsmin) | 60-180 seconds |
| - Temperature Max (Tsmax) | 150 °C |
| - Time (tsmin to tsmax) | 200 °C |
| - Temperature (TL) | |
| - Time (tL) | 60-150 seconds |
| Time maintained above: | 217 °C |
| Peak/Classification Temperature (Tp) | 260 °C |
| Time within 5 °C of actual Peak Temperature (tp) | 20-40 seconds |
| Ramp-Down Rate | 6 °C/second max. |
| Time 25 °C to Peak Temperature | 8 minutes max. |

Notes

1. All temperatures refer to Soldering Pad