



YETDA INDUSTRY LTD.

Typical Optical/ Electrical Characteristics @T_J=25°C

| Item | Symbol | Condition | Min. | Typ. | Max. | Unit |
|--------------------------------------|-------------------|-----------------------|------|------|------|------|
| Forward Voltage | V _F | I _F =150mA | 2.80 | | 4.0 | V |
| Reverse Current | I _R | V _R =5V | | | 50 | uA |
| Viewing Angle | 2θ _{1/2} | I _F =150mA | | 140 | | deg |
| Luminous Intensity | φ _V | I _F =150mA | | 95 | | lm |
| Recommend Forward Current | I _F | -- | | 150 | | mA |
| Chromaticity | T _C | I _F =150mA | 4000 | | 4500 | k |
| Thermal Resistance, Junction to Case | R _{JP} | I _F =150mA | | 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 | I _F | 150 | mA |
| Peak Forward Current* | I _{FP} | 200 | mA |
| Reverse Voltage | V _R | 5 | V |
| Power Dissipation | P _D | 1000 | mW |
| Electrostatic discharge | E _{SD} | ±4500 | V |
| Operation Temperature | T _{OPR} | -40~+80 | °C |
| Storage Temperature | T _{STG} | -40~+100 | °C |
| Lead Soldering Temperature* | T _{SOL} | Max. 260°C for 3sec Max. | |

*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.