

LED470-66-60 epoxy lens type BLUE color illuminator

LED470-66-60 is a wide viewing and extremely high output power illuminator assembled with a total of 60 high efficiency InGaN diode chips, mounted on a metal stem TO-66 with AlN ceramics and covered with double coated clear silicone and epoxy resin. These devices are designed for high current operation with proper heat sinking to improve thermal conductive efficiency.

◆ Features

- 1) High reliability
- 2) Compact (TO-66) package
- 3) High output power at 470 nm

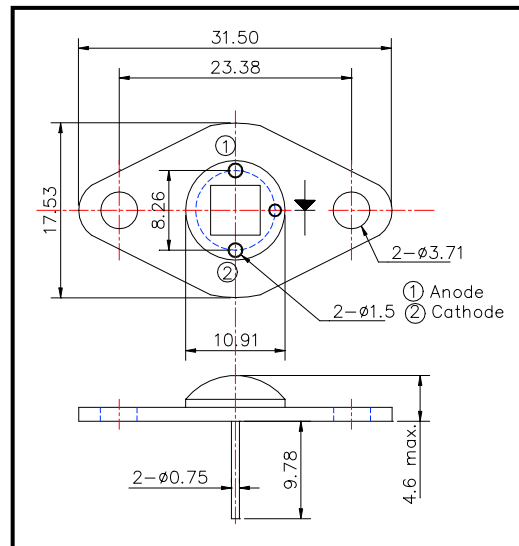
◆ Applications

- 1) For high intensity lighting source

◆ Specifications

- | | |
|---------------------|-------------------------------|
| 1) Product name | Blue color illuminator |
| 2) Spec. No. | LED470-66-60 |
| 3) Chip | |
| (1) Material | InGaN |
| (2) Peak wavelength | 470 nm |
| 4) Package | |
| (1) Stem | TO-66 stem with AlN |
| (2) Lens | Clear silicone and epoxy lens |

◆ Outer dimension (Unit: mm)



◆ Absolute Maximum Ratings

| Item | Symbol | Maximum Rated Value | Unit | Ambient Temp. |
|-----------------------|------------------|---------------------|------|------------------------|
| Power Dissipation | P _D | 7.5 | W | T _a = 25 °C |
| Forward Current | I _F | 400 | mA | T _a = 25 °C |
| Pulse Forward Current | I _{FP} | 2000 | mA | T _a = 25 °C |
| Reverse Voltage | V _R | 50 | V | T _a = 25 °C |
| Operating Temperature | T _{OPR} | -30 ~ +80 | °C | |
| Storage Temperature | T _{STG} | -30 ~ +110 | °C | |
| Soldering Temperature | T _{SOL} | 240 | °C | |

‡Pulse Forward Current condition: Duty = 1% and Pulse Width = 1 μs.

‡Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

◆ Electro-Optical Characteristics

| Item | Symbol | Condition | Minimum | Typical | Maximum | Unit |
|----------------------|------------------|-------------------------|---------|---------|---------|------|
| Brightness | I _v | I _F = 240 mA | | 18 | | cd |
| Luminous Flux | Φ _v | I _F = 240 mA | | 230 | | lm |
| Total Radiated Power | P _O | I _F = 240 mA | | 100 | | mW |
| Forward Voltage | V _F | I _F = 240 mA | | 17.5 | | V |
| Reverse Current | V _R | I _R = 10 uA | 50 | | | V |
| Peak Wavelength | λ _P | I _F = 240 mA | 460 | 470 | 480 | nm |
| Half Width | Δλ | I _F = 240 mA | | 20 | | nm |
| Viewing Half Angle | θ _{1/2} | I _F = 240 mA | | ±60 | | deg |

‡Heat sink is required thermal resistance <8 K/W

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