



LED395-66-60-110



TECHNICAL DATA

High Power LED Array, 60 chips, Glass Window

LED395-66-60-110 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 and covered with a flat glass cap.

These devices are designed for high current operation with proper heat sinking to improve thermal conductive efficiency.

Specifications

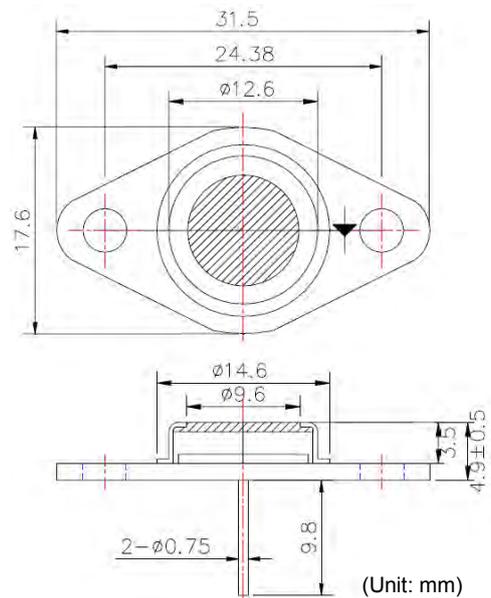
- Structure: InGaN, 60 LED chips
- Peak Wavelength: typ. 395 nm
- Optical Output Power: typ. 240 mW
- Package: TO-66 stem,
Flat glass cap

Absolute Maximum Ratings ($T_C=25^\circ\text{C}$)

| Item | Symbol | Value | Unit |
|--------------------------------------|-----------|--------------|------|
| Power Dissipation | P_D | 6.0 | W |
| Forward Current | I_F | 300 | mA |
| Pulse Forward Current * ¹ | I_{FP} | 500 | MA |
| Reverse Voltage | V_R | 30 | V |
| Operating Temperature | T_{opr} | -30 ... +80 | °C |
| Storage Temperature | T_{stg} | -30 ... +100 | °C |
| Soldering Temperature * ² | T_{sol} | 240 | °C |

*¹ duty cycle = 1%, pulse width = 1µs

*² must be completed within 3 seconds



Electro-Optical Characteristics

| Item | Symbol | Condition | Min. | Typ. | Max. | Unit |
|----------------------|-----------------|--------------------------------|------|------|------|------|
| Total Radiated Power | P_O | $I_F = 240 \text{ mA}$ | - | 240 | - | mW |
| Birghtness | I_V | $I_F = 240 \text{ mA}$ | - | 90 | - | mcd |
| Forward Voltage | V_F | $I_F = 240 \text{ mA}$ | - | 18.0 | - | V |
| Reverse Voltage | V_R | $I_R = 10 \text{ }\mu\text{A}$ | 30 | - | - | V |
| Peak Wavelength | λ_P | $I_F = 240 \text{ mA}$ | 385 | 395 | 405 | nm |
| Half Width | $\Delta\lambda$ | $I_F = 240 \text{ mA}$ | - | 15 | - | nm |
| Viewing Half Angle | $\Theta_{1/2}$ | $I_F = 240 \text{ mA}$ | - | ±60 | - | deg. |

Heat Sink is required, thermal resistance <8K/W

Notes

- This high power LED must be cooled!
- Do not view directly into the emitting area of the LED during operation!
- The above specifications are for reference purpose only and subjected to change without prior notice.

