



LED415-66-60-110



TECHNICAL DATA

High Power LED Array, 60 chips, Glass Window

LED415-66-60-110 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

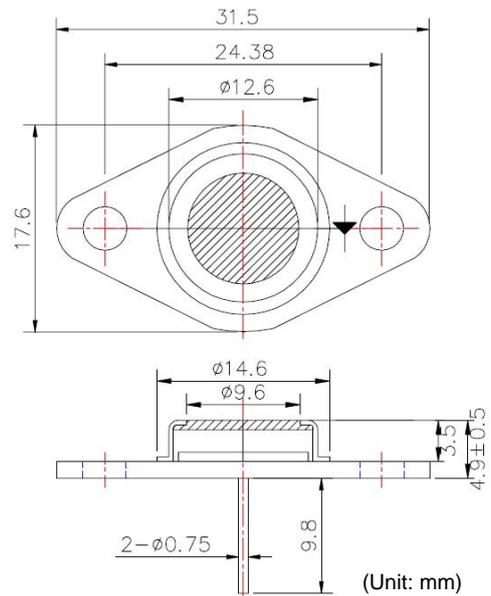
- Structure: InGaN, 60 LED chips
- Peak Wavelength: typ. 415 nm
- Optical Output Power: typ. 300 mW
- Package: TO-66 stem,
Flat glass cap

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	$^\circ\text{C}$
Storage Temperature	T_{stg}	-30 ... +100	$^\circ\text{C}$
Soldering Temperature *2	T_{sol}	240	$^\circ\text{C}$

*1 duty cycle = 1%, pulse width = 1 μs

*2 must be completed within 3 seconds



Electro-Optical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Total Radiated Power	P_O	$I_F = 240 \text{ mA}$	-	300	-	mW
Birghtness	I_V	$I_F = 240 \text{ mA}$	-	80	-	mcd
Forward Voltage	V_F	$I_F = 240 \text{ mA}$	-	18.0	-	V
Reverse Voltage	V_R	$I_R = 10 \mu\text{A}$	30	-	-	V
Peak Wavelength	λ_P	$I_F = 240 \text{ mA}$	405	415	425	nm
Half Width	$\Delta\lambda$	$I_F = 240 \text{ mA}$	-	15	-	nm
Viewing Half Angle	$\Theta_{1/2}$	$I_F = 240 \text{ mA}$	-	± 55	-	deg.

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

Brightness is measured by Tektronix J-16

Total Radiated Power is measured by Anode Optical Multi Meter AQ2140 & AQ2741

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.

