

# L430-66-60

epoxy lens type BLUE color illuminator

L430-66-60 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.

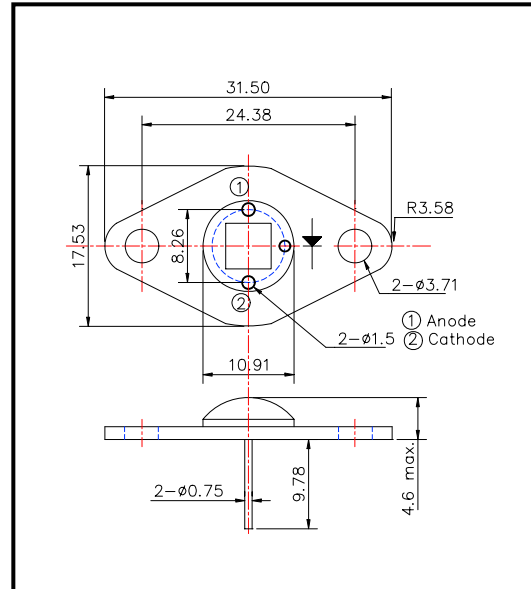
◆ Outer dimension (Unit: mm)

◆ Features

- 1) High reliability
- 2) Compact (TO-66) package
- 3) High output power at 430nm

◆ Specifications

- |                     |                               |
|---------------------|-------------------------------|
| 1) Product name     | Blue color illuminator        |
| 2) Spec. No.        | L430-66-60                    |
| 3) Chip             |                               |
| (1) Material        | InGaN                         |
| (2) Peak wavelength | 430nm                         |
| 4) Package          |                               |
| (1) Stem            | TO-66 stem with AlN           |
| (2) Material        | Copper                        |
| (3) Lens            | Clear silicone and epoxy lens |



◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	$P_D$	12.0	W	$T_a=25^\circ\text{C}$
Forward Current	$I_F$	600	mA	$T_a=25^\circ\text{C}$
Reverse Voltage	$V_R$	30	V	$T_a=25^\circ\text{C}$
Operating Temperature	$T_{OPR}$	-30 ~ +80	$^\circ\text{C}$	
Storage Temperature	$T_{STG}$	-30 ~ +100	$^\circ\text{C}$	
Soldering Temperature	$T_{SOL}$	265	$^\circ\text{C}$	

‡Soldering condition : Soldering condition must be completed within 3 seconds at  $265^\circ\text{C}$

◆ Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	$V_F$	$I_F=400\text{mA}$		19.0		V
Brightness	$I_V$	$I_F=400\text{mA}$		-		mcd
Total Radiated Power	$P_O$	$I_F=400\text{mA}$		550		mW
Radiant Intensity	$I_E$	$I_F=400\text{mA}$		-		mW/sr
Peak Wavelength	$\lambda_P$	$I_F=240\text{mA}$		430		nm
Half Width	$\Delta\lambda$	$I_F=240\text{mA}$		15		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F=240\text{mA}$		$\pm 55$		deg.

‡Total Radiated Power is measured by S3584-08

‡LED is required to keep less than  $60^\circ\text{C}$ .