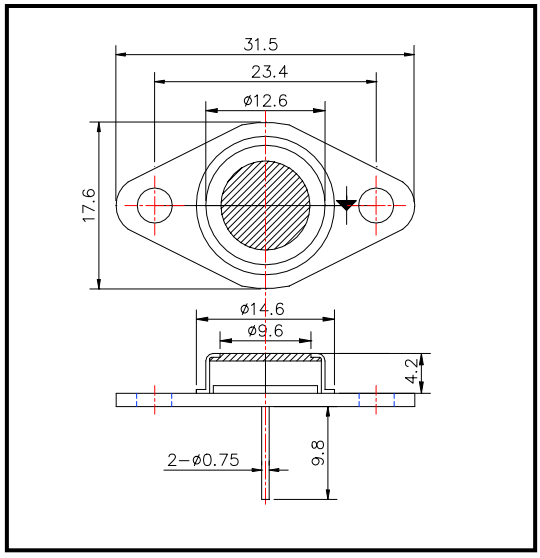
PRELIMINARY

LEDW47-66-60-120

Flat Lens Type White Color Light Illuminator

LEDW47-66-60-120 is a wide viewing and extremely high bright and output power illuminator assembled with a total of 60 high efficiency InGaN blue color diode chips, mounted on a metal stem TO-66 and covered with Flat Glass Cap.

♦Outer dimension (unit: mm)



♦ Features

1) High Brightness
2) Compact (TO-66) package

♦ Specifications

1) Product name	white color light illuminator
2) Spec. No.	LEDW47-66-60-120
3) Chip	
(1) Material	InGaN
(2) Peak wavelength	white color
4) Package	
(1) Stem	TO-66 stem
(2) Lens	flat glass cap

♦Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P_D	8.5	W	Ta = 25°C
Forward Current	I_F	400	mA	Ta = 25°C
Pulse Forward Current	I_{FP}	2000	mA	Ta = 25°C
Reverse Voltage	V_R	30	V	Ta = 25°C
Operating Temperature	T_{OPR}	-30 ~ +80	°C	
Storage Temperature	T_{STG}	-30 ~ +100	°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•

♦Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	I_F = 240 mA		19.0		V
Brightness	I_V	I_F = 240 mA		13		cd
Total Radiated Power	P_O	I_F = 240 mA		60		mW
Radiant Intensity	I_E	I_F = 240 mA		35		mW/sr
Reverse Current	V_R	I_R = 10 μA	50			V
Peak Wavelength	λ_P	I_F = 240 mA		*1		nm
Half Width	$\Delta\lambda$	I_F = 240 mA		-		nm
Viewing Half Angle	$\theta_{1/2}$	I_F = 240 mA		±55		deg.

*1 x: 2.3±0.3E-01, y: 2.2±0.3E-01
‡ Heat sink is required thermal resistance <8K/W

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