

L450-66-60 epoxy lens type BLUE color illuminator

L450-66-60 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 450nm

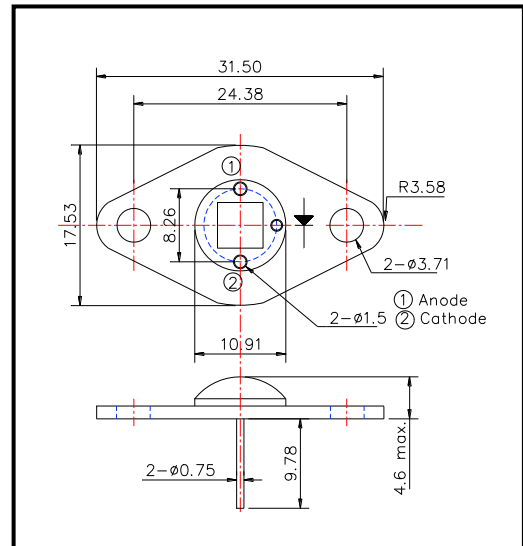
Applications

- 1) For high intensity lighting source

Specifications

- 1) Product name Blue color illuminator
- 2) Spec. No. L450-66-60
- 3) Chip
 - (1) Material InGaN
 - (2) Peak wavelength 450m
- 4) Package
 - (1) Stem TO-66 stem with AlN
 - (2) Material Copper
 - (3) 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	16.0	W	T _a =25°C
Forward Current	I _F	800	mA	T _a =25°C
Reverse Voltage	V _R	30	V	T _a =25°C
Operating Temperature	T _{OPR}	-30 ~ +80	°C	
Storage Temperature	T _{STG}	-30 ~ +110	°C	
Soldering Temperature	T _{SOL}	265	°C	

‡Soldering condition: Soldering condition must be completed within 3 seconds at 265°C

Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =600mA		18.5		V
Brightness	I _V	I _F =600mA		-		mcd
Total Radiated Power	P _O	I _F =600mA		460		mW
Radiant Intensity	I _E	I _F =600mA		-		mW/sr
Reverse Current	V _R	I _R =10uA	30			V
Peak Wavelength	λ _P	I _F =240mA	(440)	450	(460)	nm
Half Width	Δλ	I _F =240mA		20		nm
Viewing Half Angle	Q _{1/2}	I _F =240mA		±60		deg.

‡Total Radiated Power is measured by S3584-08

‡LED is required to keep less than 60°C.