



Lead (Pb) Free Product – RoHS Compliant

LED435-66-60

epoxy lens type BLUE color illuminator

LED435-66-60 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.

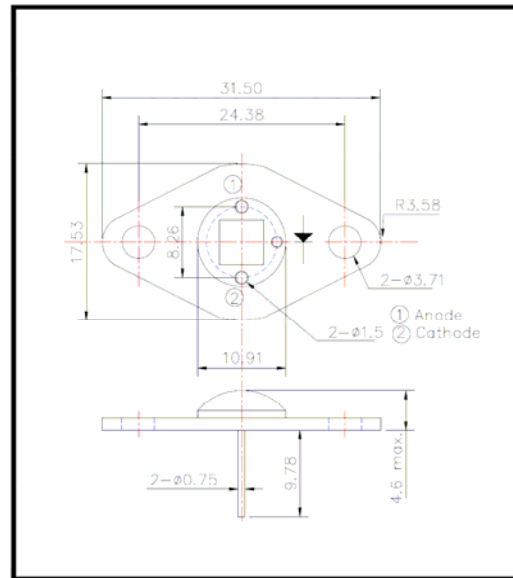
◆ Outer dimension (Unit: mm)

◆ Features

- 1) High reliability
- 2) Compact (TO-66) package
- 3) High output power at 435nm

◆ Specifications

- 1) Product name Blue color illuminator
- 2) Spec. No. LED435-66-60
- 3) Chip
 - (1) Material InGaN
 - (2) Peak wavelength 435nm
- 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°C
Forward Current	I _F	600	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 ~ +100	°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 =400mA		19.0		V
Brightness	I _V	I _F =400mA		-		mcd
Total Radiated Power	P _O	I _F =400mA		550		mW
Radiant Intensity	I _E	I _F =400mA		-		mW/sr
Peak Wavelength	λ _P	I _F =240mA		435		nm
Half Width	Δλ	I _F =240mA		15		nm
Viewing Half Angle	θ _{1/2}	I _F =240mA		±55		deg.

‡Total Radiated Power is measured by S3584-08

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