

L630-66-60 epoxy lens type RED color illuminator

L630-66-60 is a wide viewing and extremely high output power illuminator assembled with a total of 60 high efficiency InGaAlP 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 630nm

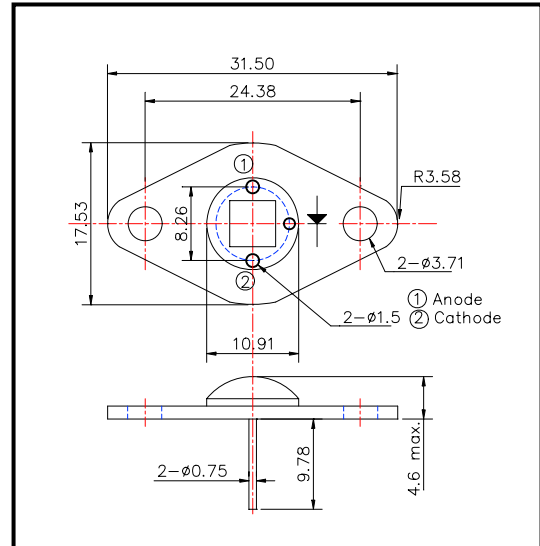
◆ Applications

- 1) For high intensity lighting source

◆ Specifications

- 1) Product name Red color illuminator
- 2) Spec. No. L630-66-60
- 3) Chip
 - (1) Material InGaAlP
 - (2) Peak wavelength 630nm
- 4) Package
 - (1) Stem TO-66 stem with AlN
 - (2) Lens Clear epoxy lens

◆ Outer dimension (Unit: mm)



◆ Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temp.
Power Dissipation	P_D	4.5	W	$T_a=25^\circ\text{C}$
Forward Current	I_F	400	mA	$T_a=25^\circ\text{C}$
Pulse Forward Current	I_{FP}	600	mA	$T_a=25^\circ\text{C}$
Reverse Voltage	V_R	50	V	$T_a=25^\circ\text{C}$
Operating Temperature	T_{OPR}	-30 ~ +80	$^\circ\text{C}$	
Storage Temperature	T_{STG}	-30 ~ +110	$^\circ\text{C}$	
Soldering Temperature	T_{SOL}	240	$^\circ\text{C}$	

‡Pulse Forward Current condition: Duty=1% and Pulse Width=1us.

‡Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

◆ Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	$I_F=240\text{mA}$		10.0		V
Brightness	I_v	$I_F=240\text{mA}$		7000		mcd
Total Radiated Power	P_o	$I_F=240\text{mA}$		140		mW
Radiant Intensity	I_E	$I_F=240\text{mA}$		35		mW/sr
Reverse Current	V_R	$I_R=10\mu\text{A}$	50			V
Peak Wavelength	λ_P	$I_F=240\text{mA}$	620	630	640	nm
Half Width	$\Delta\lambda$	$I_F=240\text{mA}$		20		nm
Viewing Half Angle	$\theta_{1/2}$	$I_F=240\text{mA}$		± 60		deg.

‡Heat sink is required thermal resistance <8K/W