

L560-66-60 epoxy lens type Yellow Green color illuminator

L560-66-60 is a wide viewing and extremely high output power illuminator assembled with a total of 60 high efficiency GaP 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 560nm

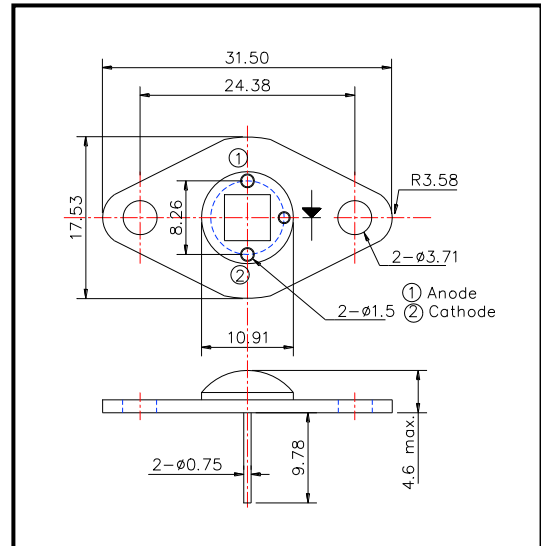
◆ Applications

- 1) For high intensity lighting source

◆ Specifications

- 1) Product name Yellow Green color illuminator
- 2) Spec. No. L560-66-60
- 3) Chip
 - (1) Material GaP
 - (2) Peak wavelength 560nm
- 4) Package
 - (1) Stem TO-66 stem with AlN
 - (2) Lens Clear epoxy lens

◆ Outer dimension (Unit: mm)



Item	Symbol	Maximum Rated Value	Unit	Ambient Temp.
Power Dissipation	P _D	6.5	W	T _a =25°C
Forward Current	I _F	500	mA	T _a =25°C
Pulse Forward Current	I _{FP}	600	mA	T _a =25°C
Reverse Voltage	V _R	50	V	T _a =25°C
Junction Temperature	T _J	100	°C	
Thermal Resistance	R _{thjp}	8	K/W	
Operating Temperature	T _{OPR}	-30 ~ +85	°C	
Storage Temperature	T _{STG}	-30 ~ +110	°C	
Soldering Temperature	T _{SOL}	265	°C	

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

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

‡Thermal Resistance: Junction – Package, mounted on heat sink

◆ Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F =240mA		11.0		V
Total Radiated Power	P _O	I _F =240mA		8		mW
Brightness	I _V	I _F =240mA		1250		mcd
Reverse Current	V _R	I _R =10uA	50			V
Peak Wavelength	λ _P	I _F =240mA	550	560	575	nm
Half Width	Δλ	I _F =240mA		15		nm
Viewing Half Angle	θ _{1/2}	I _F =240mA		±65		deg.

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

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