

L850-66-60-550 IRED illuminator with Glass ball lens cap and heat sink

L850-66-60-550 is an extremely high beam and output power illuminator assembled with a total of 60 high efficiency AlGaAs diode chips, mounted on a metal stem TO-66 with AlN ceramics and sealed with glass ball lens cap and with heat sink for high current use.

◆ Features

- 1) High beam
- 2) Compact (TO-66) package
- 3) High output power

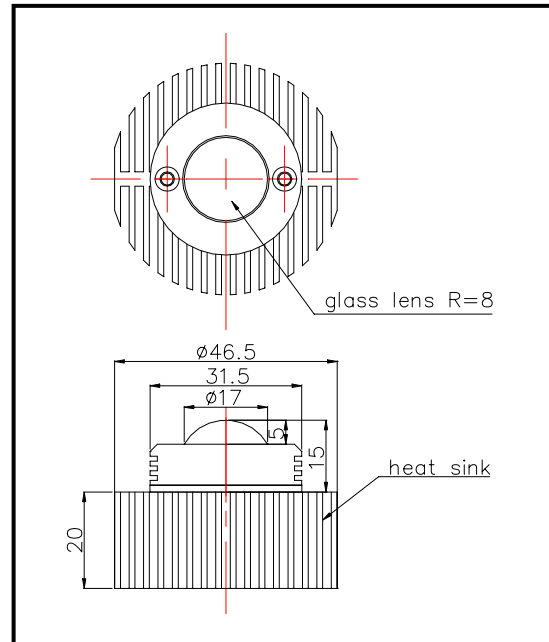
◆ Applications

- 1) For IR search light
- 2) For CCD lighting

◆ Specifications

- | | |
|---------------------|---------------------|
| 1) Product name | IR illuminator |
| 2) Spec. No. | L850-66-60-550 |
| 3) Chip | |
| (1) Material | AlGaAs |
| (2) Peak wavelength | 850nm |
| 4) Package | |
| (1) Stem | TO-66 stem with AlN |
| (2) Lens | Glass ball lens |
| (3) Heat sink | Aluminum |

◆ Outer dimension (Unit: mm)



◆ Absolute Maximum Ratings

| Item | Symbol | Maximum Rated Value | Unit | Ambient Temp. |
|-----------------------|------------------|---------------------|------|----------------------|
| Power Dissipation | P _D | 7.5 | W | T _a =25°C |
| Forward Current | I _F | 1.2 | A | T _a =25°C |
| Pulse Forward Current | I _{FP} | 6 | A | T _a =25°C |
| Reverse Voltage | V _R | 50 | 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 | |

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

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

◆ Electro-Optical Characteristics (T_a=25°C)

| Item | Symbol | Condition | Minimum | Typical | Maximum | Unit |
|----------------------|------------------|-----------------------|---------|---------|---------|--------------------|
| Total Radiated Power | P _O | I _F =800mA | | 950 | | mW |
| Total Radiated Power | P _O | I _{FP} =5A | | 5500 | | mW |
| Radiant Intensity | I _E | I _F =800mA | | (1,200) | | mW/sr |
| Axial Radiated Power | I | I _F =800mA | | 0.09 | | mW/cm ² |
| Forward Voltage | V _F | I _F =800mA | | 7.50 | | V |
| Peak Wavelength | λ _P | I _F =800mA | 840 | 850 | 860 | nm |
| Half Width | Δλ | I _F =800mA | | 40 | | nm |
| Viewing Half Angle | θ _{1/2} | I _F =800mA | | ±25 | | deg. |
| Rise Time | t _f | I _F =100mA | | 15 | | ns |
| Fall Time | t _f | I _F =100mA | | 10 | | ns |

‡Axial Radiated Power condition: L=1m

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

USHIO EUROPE B.V. (www.ushio.eu)

Sky Park, Breguetlaan 16-18, 1438 BC, Oude Meer, The Netherlands

Tel: +31-20-4469-333 Fax: +31-20-4469-360 E-mail: led@ushio-europe.nl