

L850-66-60

Epoxy Lens Type Infrared Illuminator

L850-66-60 is a wide viewing and extremely high 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 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>

- High Reliability
- Compact(TO-66) Package
- High Output Power at 850nm

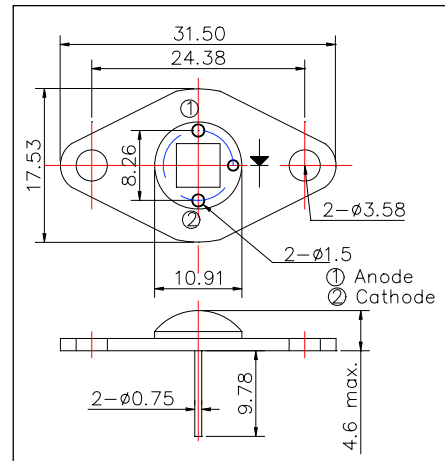
<Application>

- For IR Search Light
- For CCD Lighting
- For Night Vision Light Source

<Specifications>

1. Product Name: IR Illuminator
2. Type Number: L850-66-60
3. Chip:
 - Chip material: AlGaAs
 - Peak Wavelength: 850nm typ.
4. Package
 - Type: TO-66 Stem with AlN
 - Lens: Clear Silicone and Epoxy Lens

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	10	W
Forward Current	IF	1200	mA
Thermal Resistance	Rthja	2	A
Reverse Voltage	VR	50	V
Operating Temperature	TOPR	-30 ~ +80	°C
Storage Temperature	TSTG	-30 ~ +110	°C
Soldering Temperature*	TSOL	260	°C

* Soldering condition must be completed within 3 second at 260 °C.

Electro-Optical Characteristics [Tc=25°C]						
Item	Symbol	Condition	Min	Typ	Max	Unit
Forward Current	VF	IF=600mA		7.7		V
Radiated Power*	PO	IF=600mA		900		mW
Radiant Intensity**	IE	IF=600mA		300		mW/sr
Peak Wavelength	λP	IF=600mA	840	850	860	nm
Half Width	Δλ	IF=600mA		40		nm
Viewing Half Angle	θ1/2	IF=100mA		±65		deg

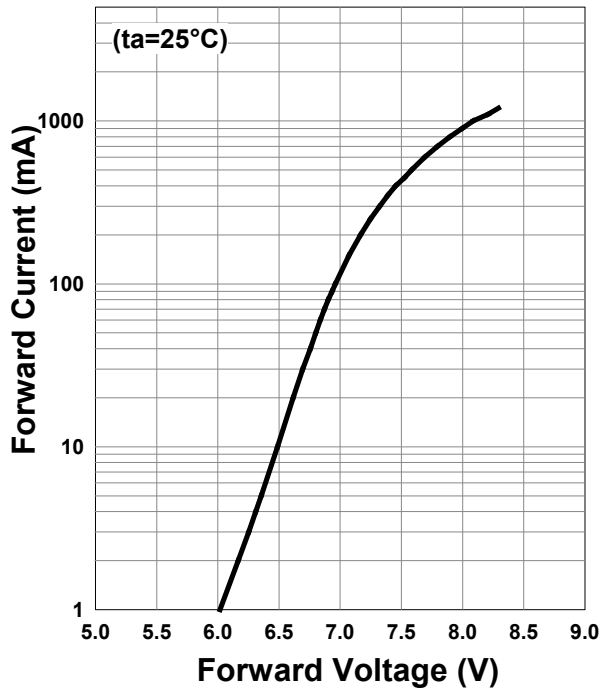
* Measured by S3584-08

** Measured by CIE127-2007 Condition B

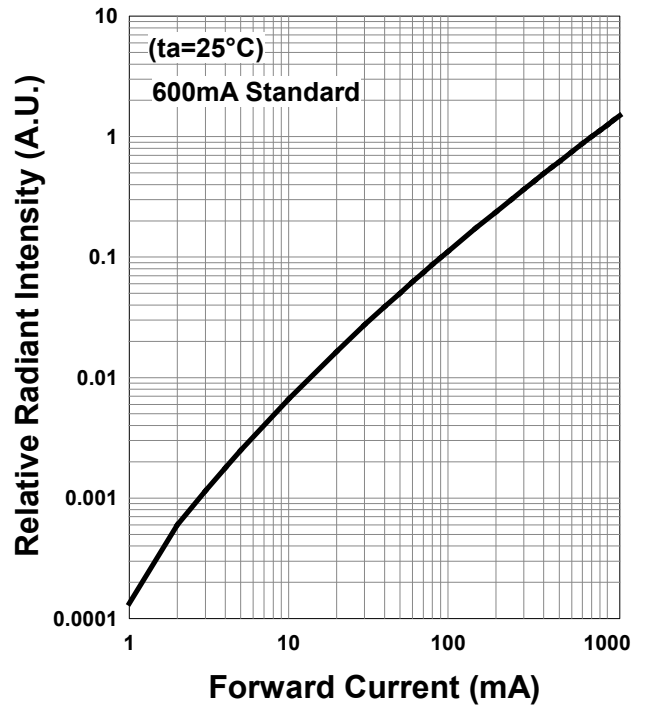
Heat sink is required thermal resistance <8K/W



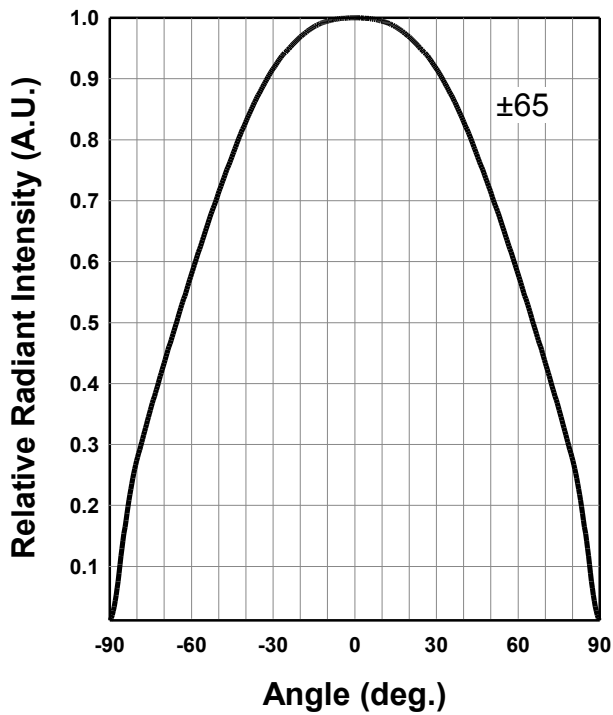
Forward Current - Forward Voltage



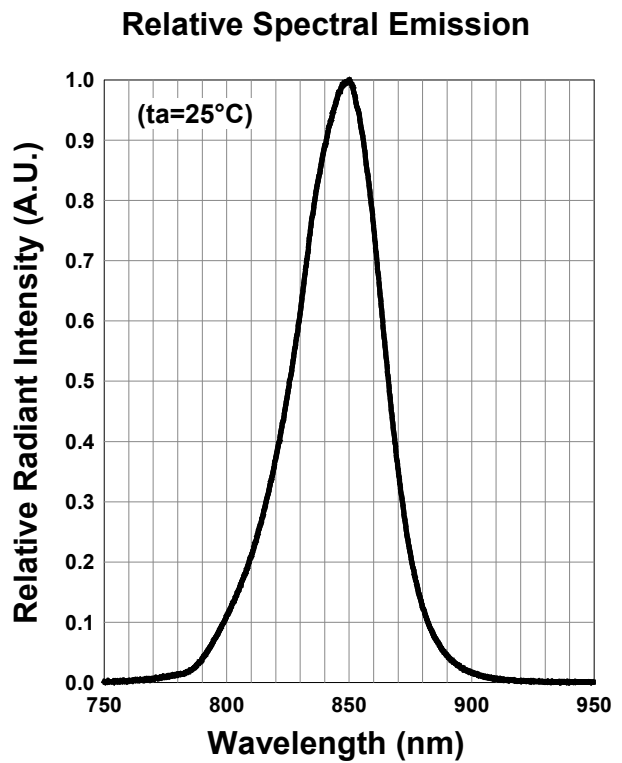
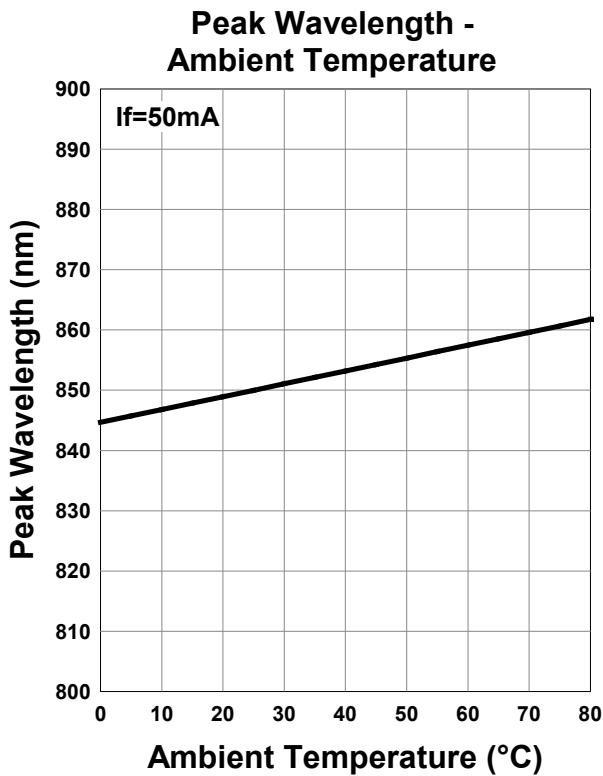
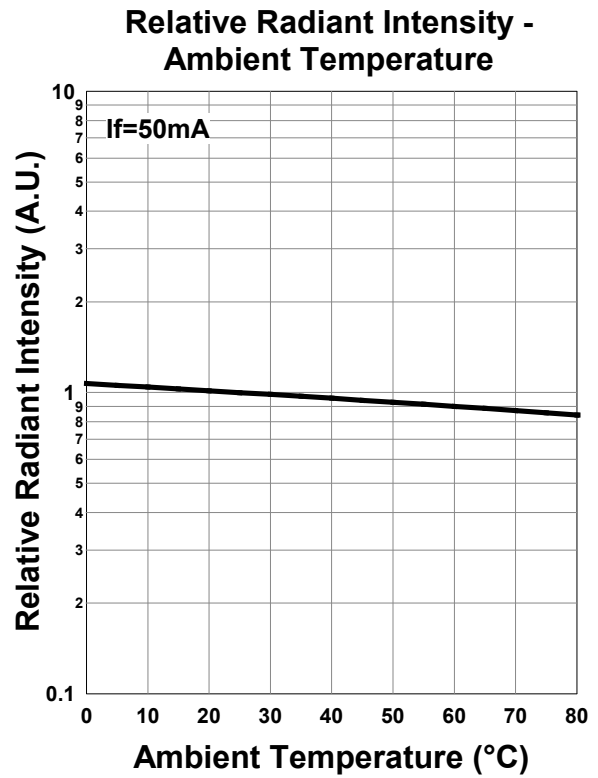
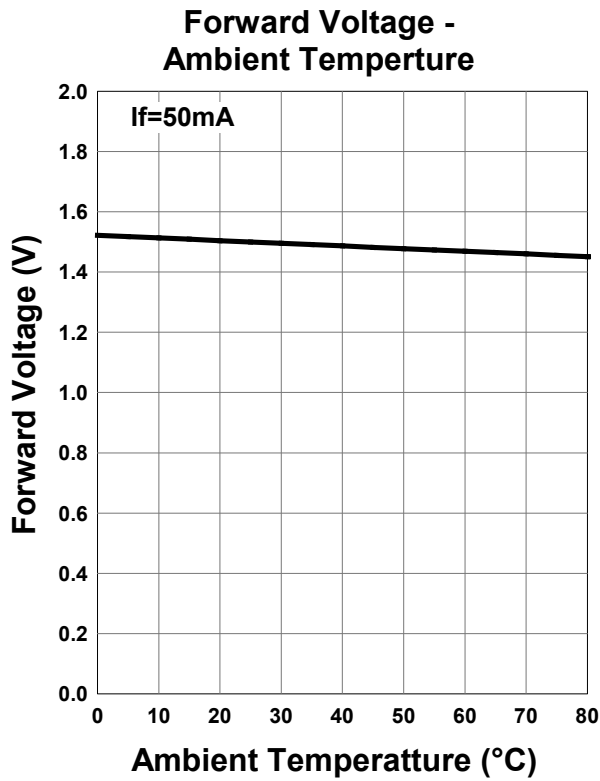
Relative Radiant Intensity - Forward Current



Radiation Characteristics



*The data below shows the characteristics of one representative TO-66 chip.



Disclaimer

Product specifications and data shown in this product catalog are subject to change without notice for the purposes of improving product performance, reliability, design, or otherwise.

Product data and parameters in this catalog are typical values based on reasonably up-to-date measurements.

Product data and parameters may vary by user application and over time.

Products shown in this catalog are intended to be used for general electronic equipment. Products are not guaranteed for applications where product malfunction or failure may cause personal injury or death, including but not limited to life-supporting / saving devices, medical devices, safety devices, airplanes, aerospace equipment, automobiles, traffic control systems, and nuclear reactor control systems.

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