

**L720-66-60-130**

**IREL Illuminator with PMMA Lens Cap and Heat Sink**

L720-66-60-130 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 PMMA lens cap and with heat sink for high current use. 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 720nm

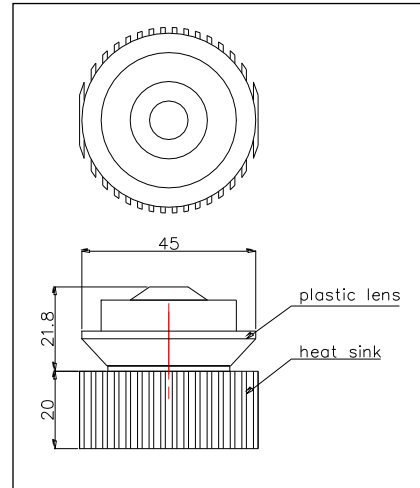
<Application>

- For IR Search Light
- For CCD Lighting

<Specifications>

1. Product Name: IR Illuminator
2. Type Number: L720-66-60-130
3. Chip:
  - Chip material: AlGaAs
  - Peak Wavelength: 720nm typ.
4. Package
  - Type: TO-66 Stem with AlN
  - Lens: PMMA Lens
  - Heat Sink: Aluminum

Outer Dimension (Unit:mm)



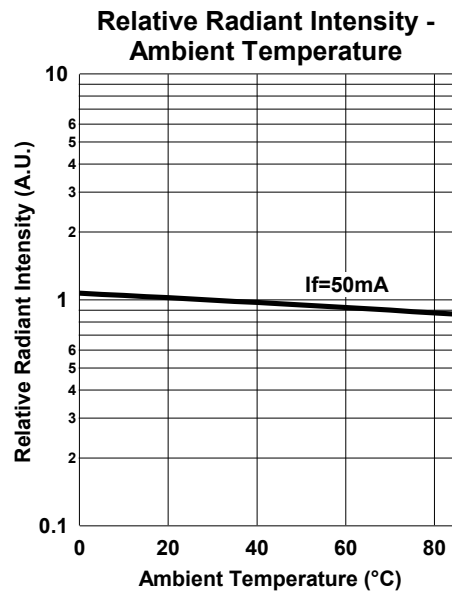
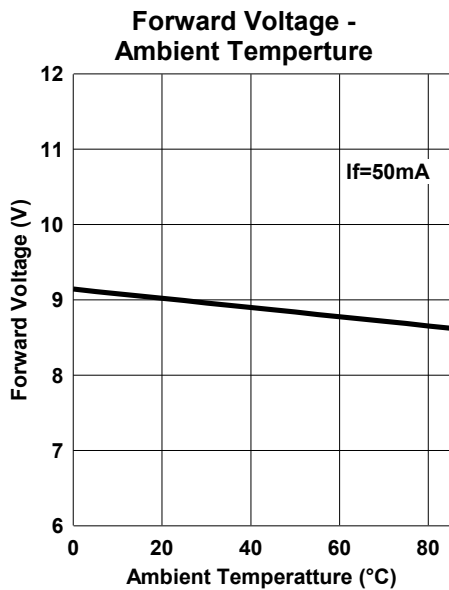
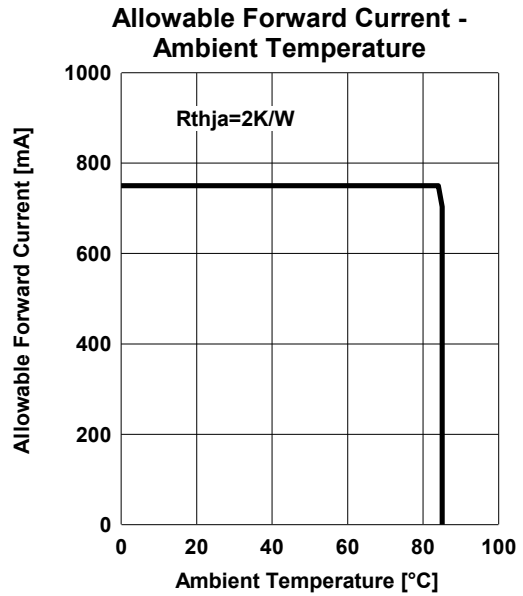
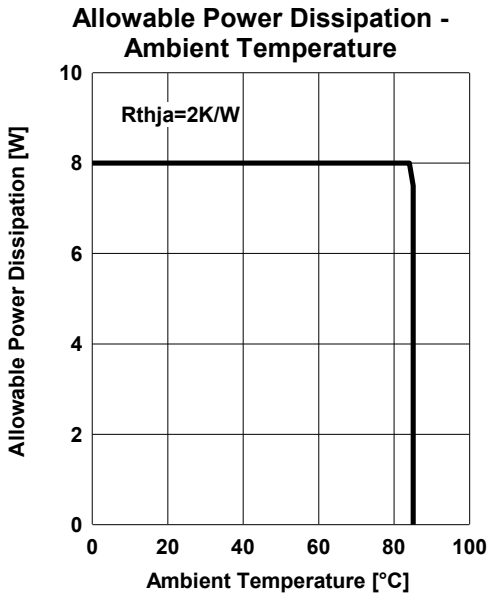
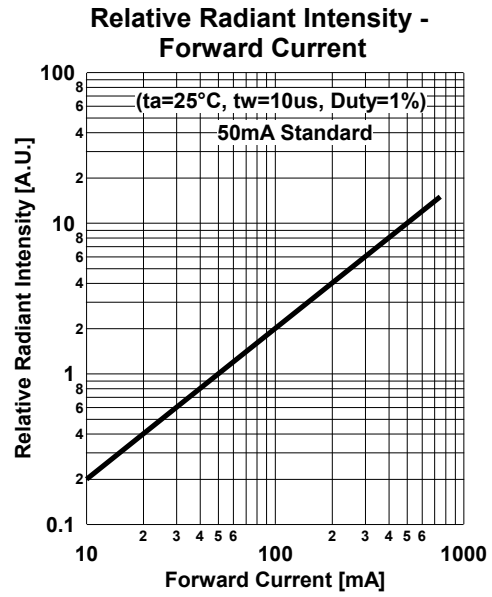
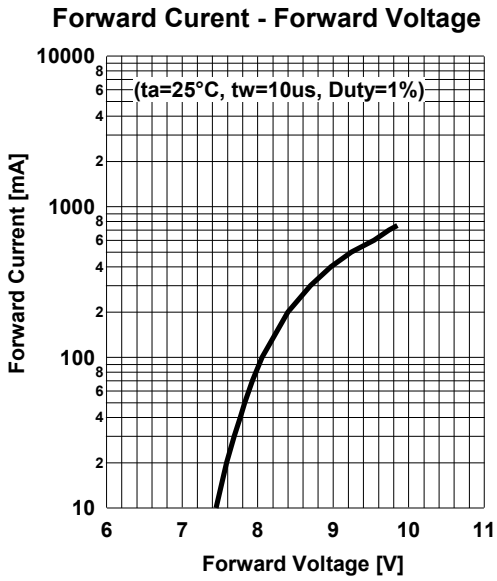
Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	8.0	W
Forward Current	IF	750	mA
Pulse Forward Current*	IFP	3	A
Reverse Voltage	VR	50	V
Junction Temperature	Tj	100	°C
Thermal Resistance**	Rthjp	2.0	K/W
Operating Temperature	TOPR	-30 ~ +80	°C
Storage Temperature	TSTG	-30 ~ +110	°C
Soldering Temperature***	TSOL	265	°C

\* Duty=1% and Pulse Width=1us

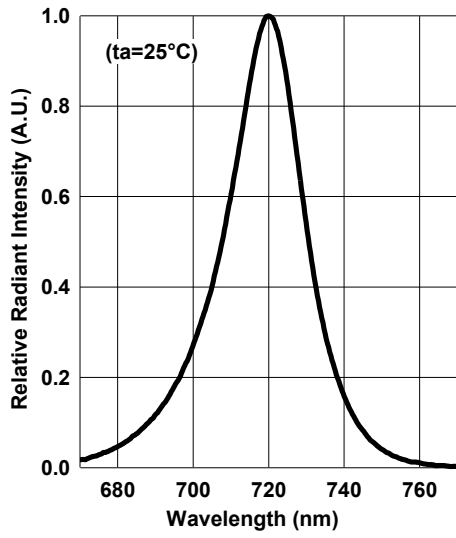
\*\* Junction - Package, mounted on heat sink

\*\*\* Soldering condition must be completed within 3 second at 265 °C.

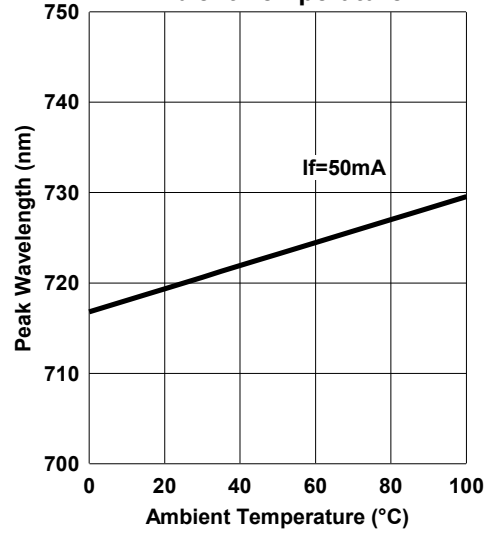
Electro-Optical Characteristics						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Total Radiated Power	PO	IF=600mA		550		mW
		IF=3A		2750		
Radiant Intensity	IE	IF=600mA		2000		mW/sr
Forward Voltage	VF	IF=600mA		9.5		V
Reverse Current	VR	IR=10uA	50			V
Peak Wavelength	λP	IF=600mA		720		nm
Half Width	Δλ	IF=600mA		30		nm
Viewing Half Angle	θ1/2	IF=600mA		±13		deg
Rise Time	Tr	IF=600mA		100		Ns
Fall Time	tf	IF=600mA		100		ns



Relative Spectral Emission



Peak Wavelength - Ambient Temperature



Radiation Characteristics

