

L1050G-66-60

Epoxy Lens Type Infrared Illuminator

L1050G-66-60 is a wide viewing and extremely high output power illuminator assembled with a total of 60 high efficiency GaAs 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.

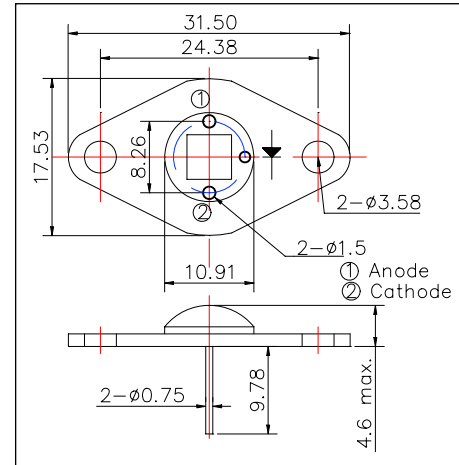
<Features>

- High Current Us
- High Reliabilit
- High Output Power at 1050n

<Specifications>

1. . Product Name: IR Illuminator
2. Type Number: L1050G-66-60
3. Chip
 - Chip material: GaAS
 - Chip Dimension: 300um x 300um
4. Peak Wavelength: 1050nm typ.
- 4.Package
 - Type: TO-66 Stem
 - Lens: Silicone and/or Epoxy Lens

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	7.8	W
Forward Current	IF	1.2	A
Reverse Voltage	VR	25	V
Thermal Resistance	Rthja	2	K/W
Junction Temperature	Tj	120	°C
Operating Temperature	TOPR	-40 ~ +85	°C
Storage Temperature	TSTG	-40 ~ +100	°C
Soldering Temperature*	TSOL	265	°C

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

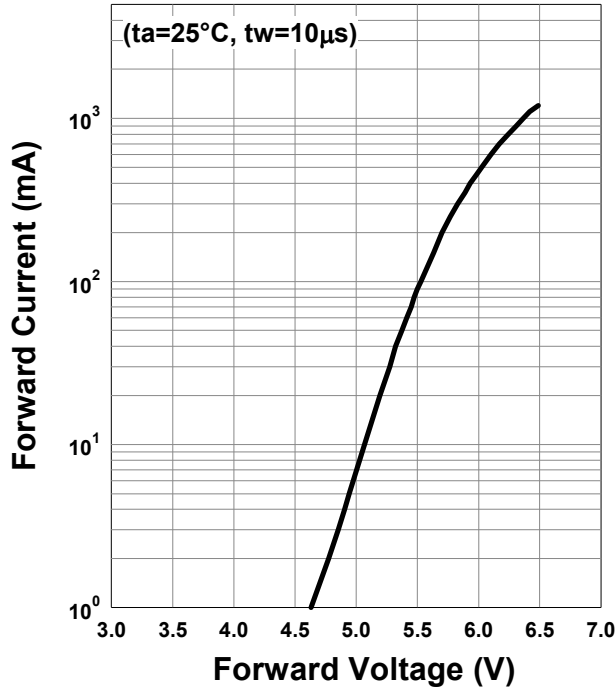
Electro-Optical Characteristics						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	IF=600mA		6.1	6.5	V
Total Radiated Power*	P _O	IF=600mA		180		mW
Peak Wavelength	λ _P	IF=600mA	1000		1100	nm
Half Width	Δλ	IF=600mA		42		nm
Viewing Half Angle	θ _{1/2}	IF=100mA		± 66		deg
Rise Time	t _r	IF=600mA		30		ns
Fall Time	t _f	IF=600mA		30		ns

* Radiated Power is measured by G8370-85.

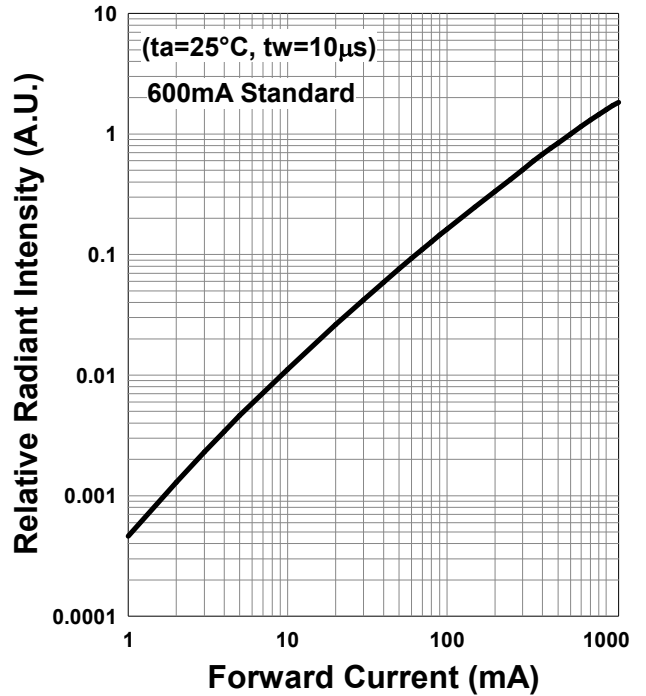


Typical Characteristic Curves

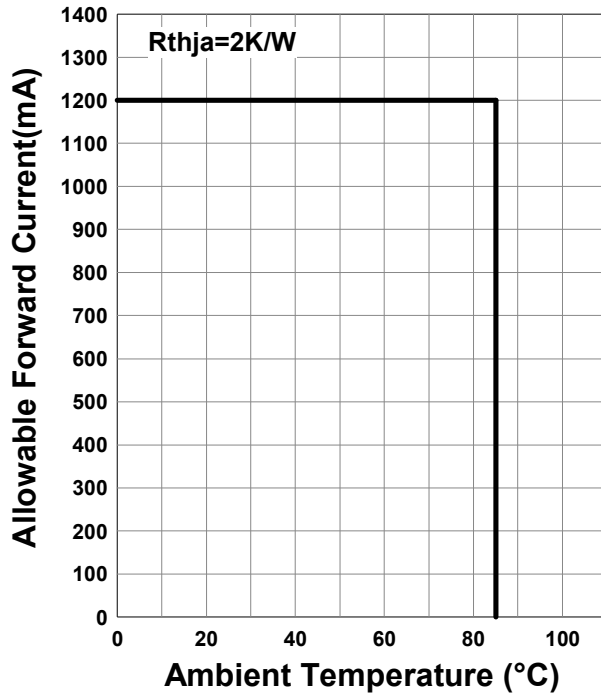
Forward Current - Forward Voltage

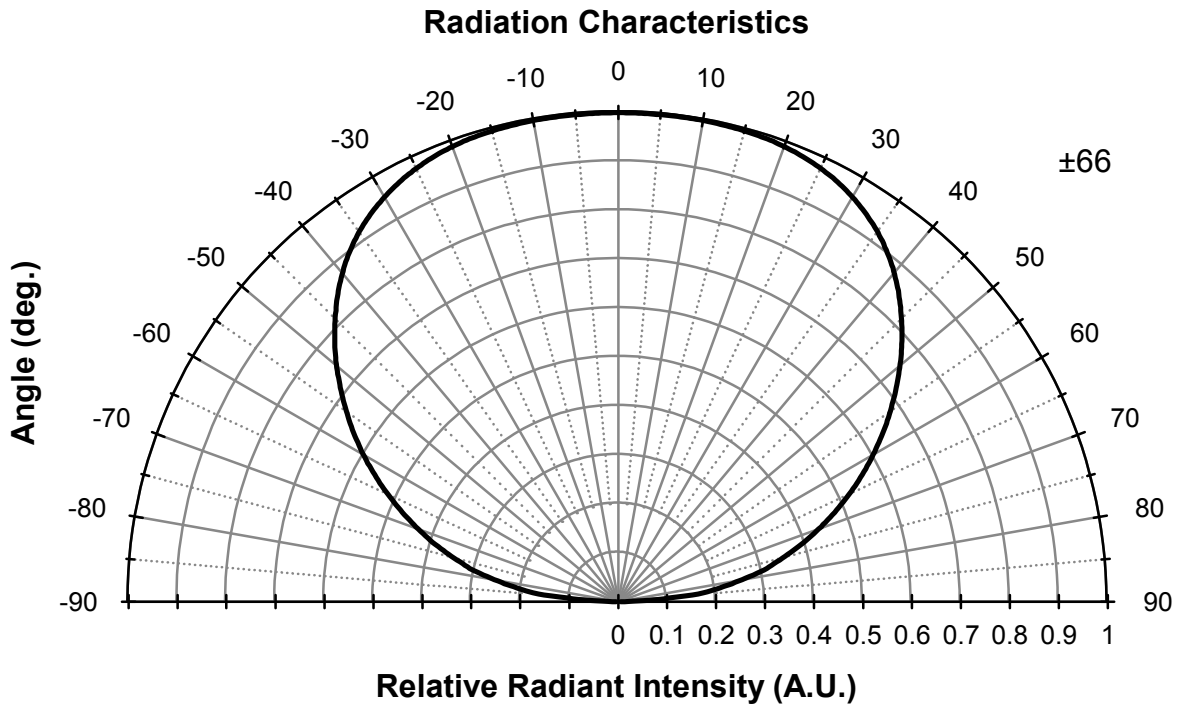
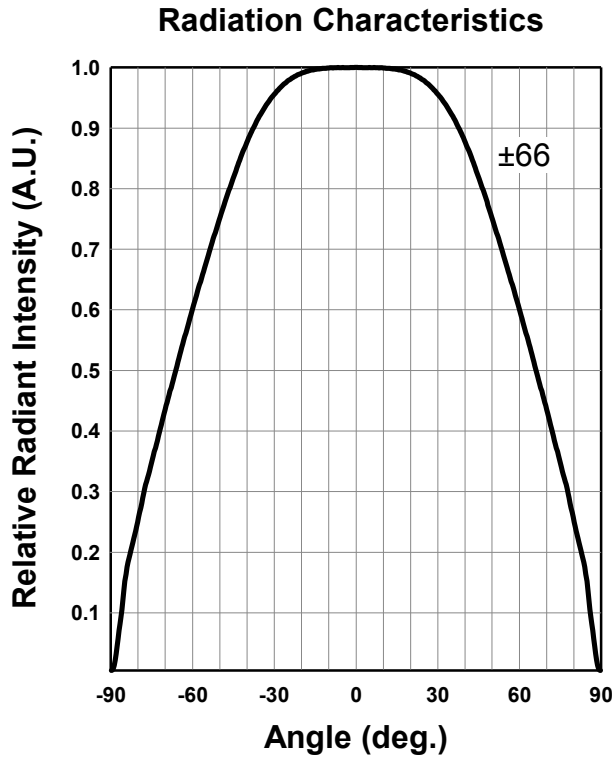


Relative Radiant Intensity - Forward Current

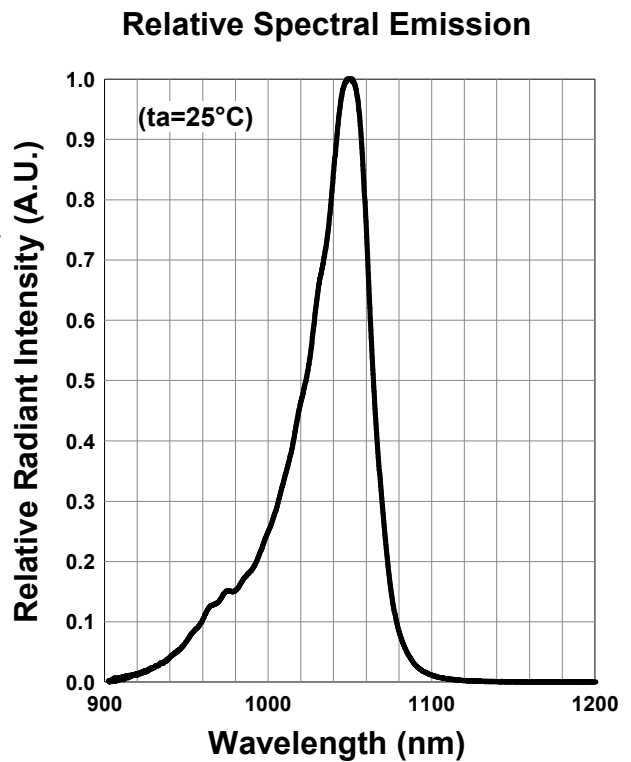
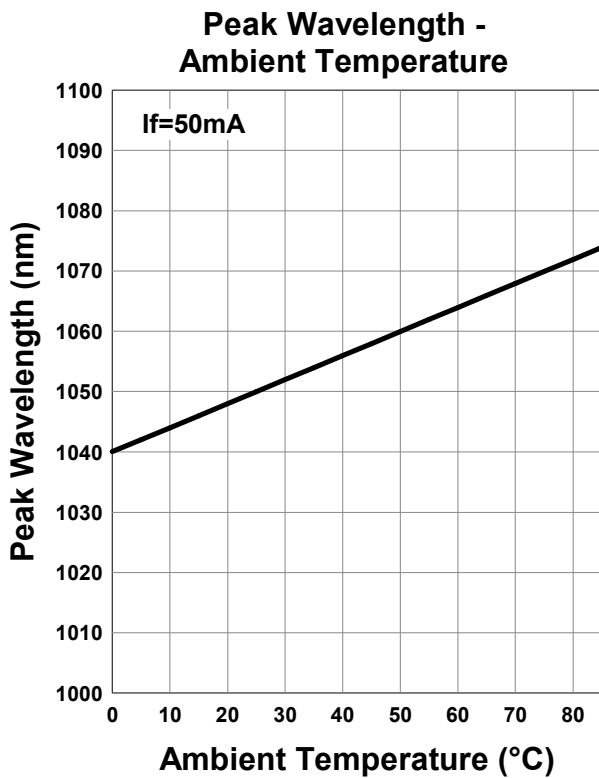
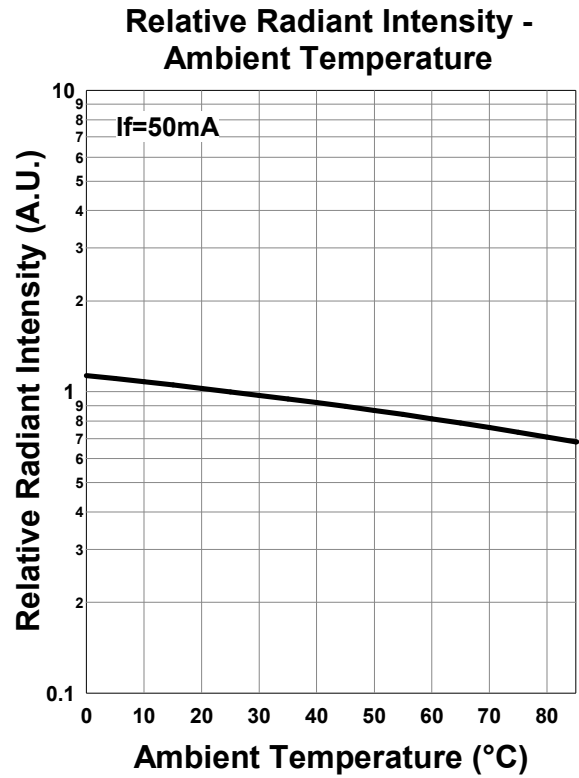
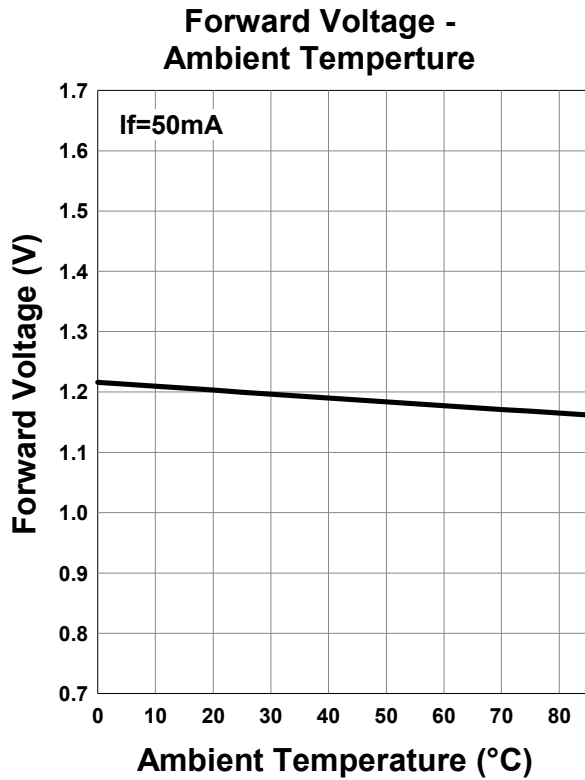


Allowable Forward Current - Ambient Temperature





*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.

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