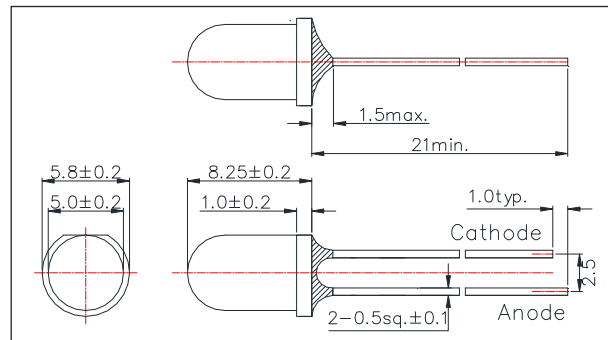


L1050G-03
Infrared LED Lamp

<Specifications>

- Chip Material: GaAs
- Chip Dimension: 300um x 300um
- Number of Chips: 1pcs
- Peak Wavelength: 1050nm typ.
- Package Type: Φ5mm Clear Molding
- Lead Frame: Soldered (Lead Free)
- Lens: Epoxy Resin

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Tc=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	130	W
Forward Current	IF	100	mA
Pulse Forward Current*	IFP	1000	mA
Reverse Voltage	VR	5	V
Thermal Resistance	Rthja	300	K/W
Junction Temperature	Tj	120	°C
Operating Temperature	TOPR	-40 ~ +100	°C
Storage Temperature	TSTG	-40 ~ +100	°C
Soldering Temperature**	TSOL	265	°C

* Duty=1% and Pulse Width=10us.

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

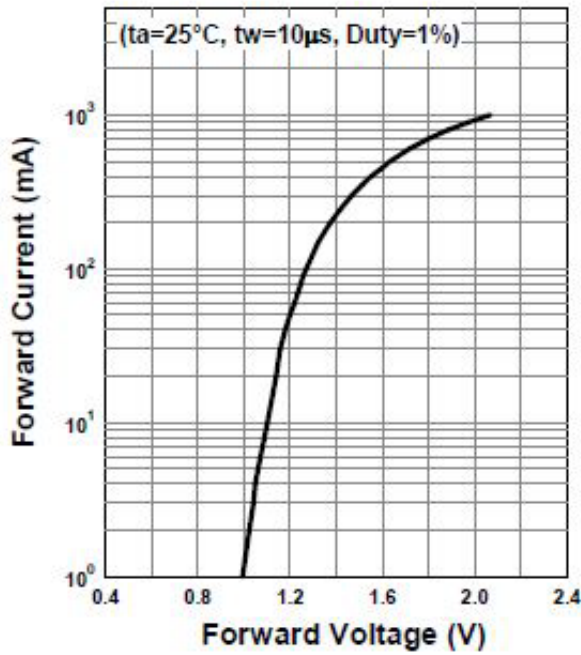
Electro-Optical Characteristics[Tc= 25°C]						
Item	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	VF	IF=50mA		1.2	1.3	V
	VFP	IPF=1A		2.1		
Total Radiated Power*	PO	IF=50mA		15		mW
		IPF=1A		130		
Radiant Intensity**	IE	IF=50mA		73		mW/sr
		IPF=1A		650		
Peak Wavelength	λP	IF=50mA	1000		1100	nm
Half Width	Δλ	IF=50mA		42		nm
Viewing Half Angle	θ1/2	IF=50mA		±12		deg
Rise Time	tr	IF=50mA		30		ns
Fall Time	tf	IF=50mA		30		ns

* Measured by G8370-85

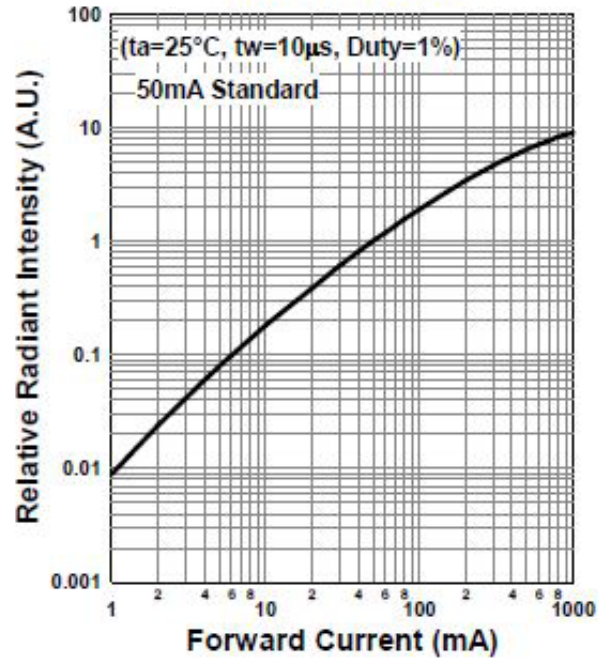
**Measured by Ando Optical Multi Meter AQ2140&AQ2742



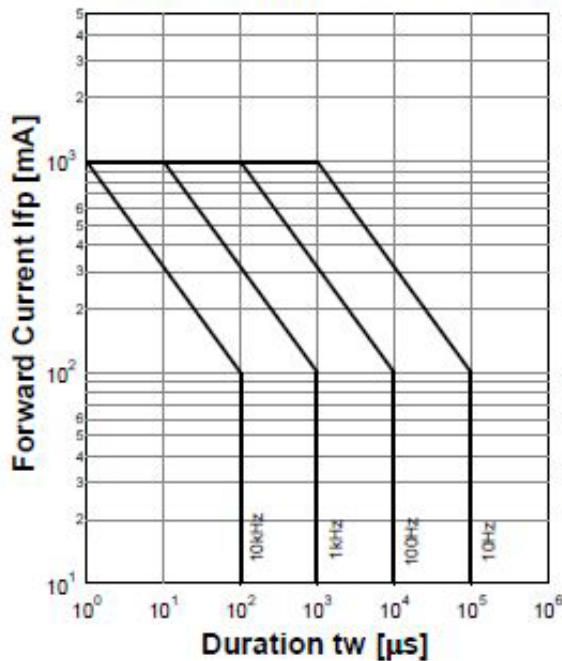
Forward Current - Forward Voltage



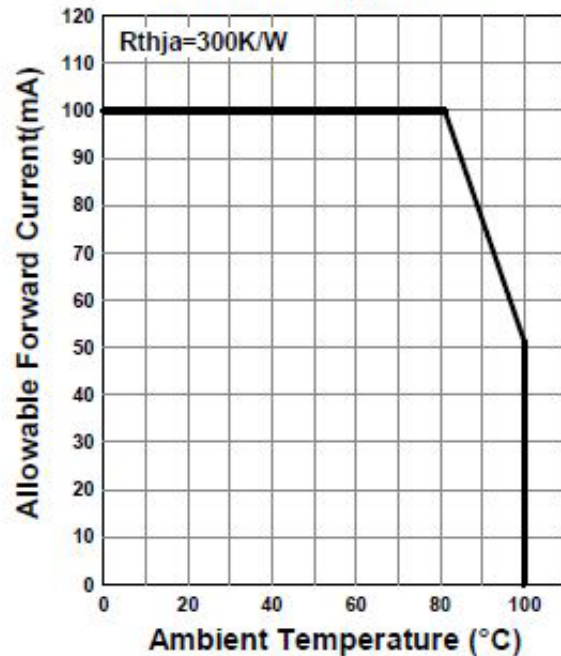
Relative Radiant Intensity - Forward Current

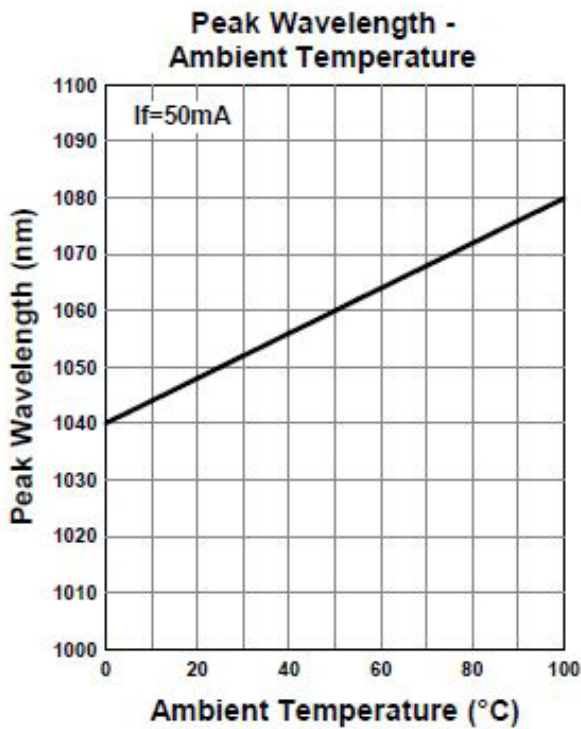
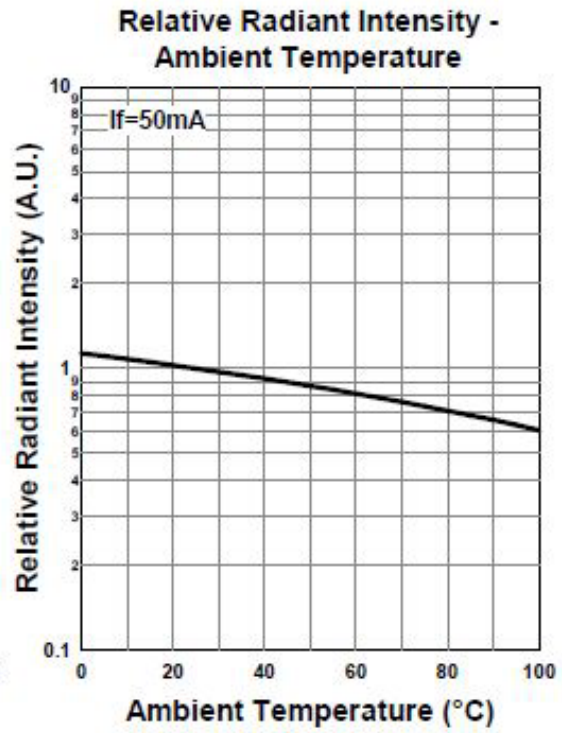
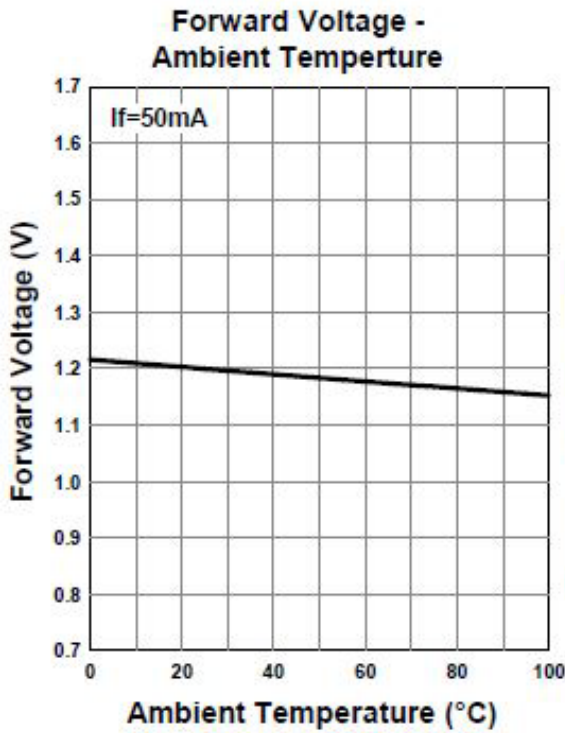


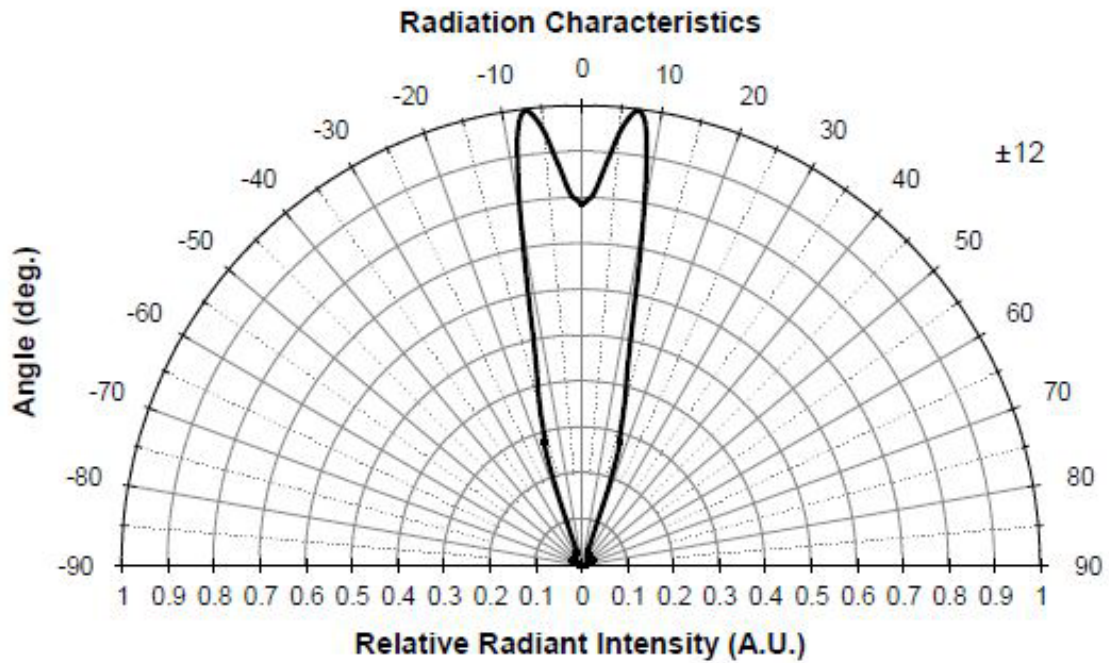
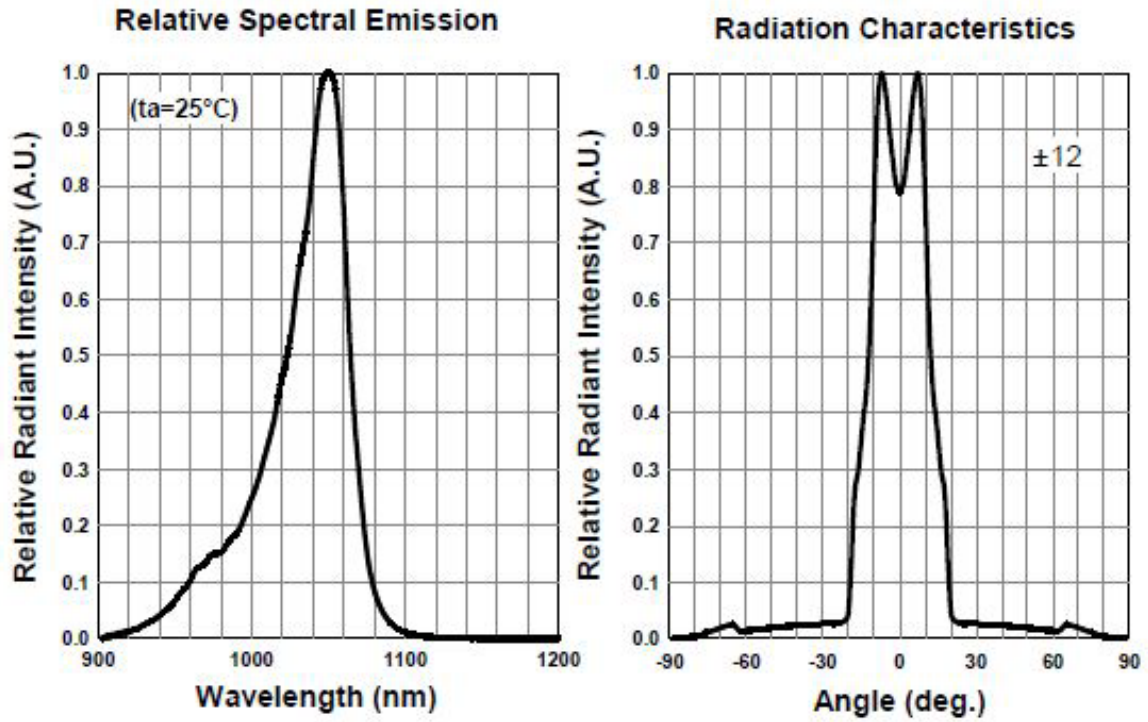
Forward Current - Pulse Duration



Allowable Forward Current - Ambient Temperature







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.

2017.05