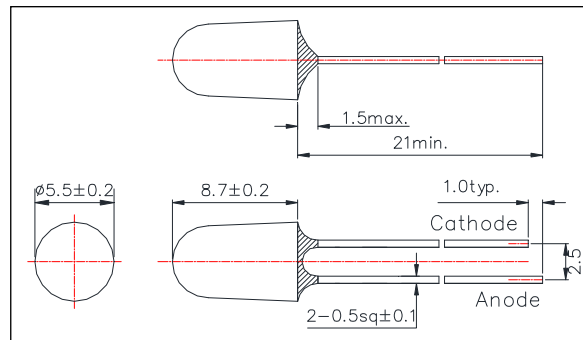


**L940-06AU**  
Infrared LED Lamp

<Specifications>

- Chip Material: AlGaAs
- Chip Dimension: 400um x 400um
- Number of Chips: 1pcs
- Peak wavelength: 940nm 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	150	W
Forward Current	IF	100	A
Pulse Forward Current*	IFP	1000	
Reverse Voltage	VR	5	V
Thermal Resistance	Rthja	270	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.

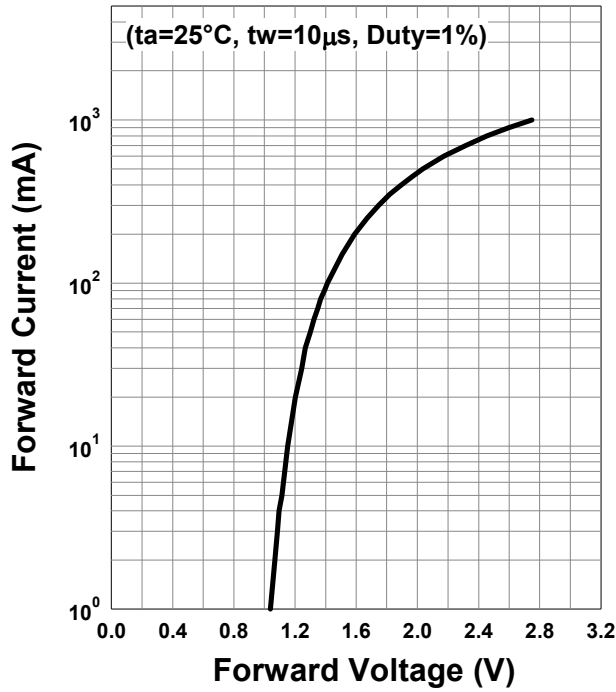
Electro-Optical Characteristics[Tc=25°C]						
Item	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	VF	IF=50mA		1.3	1.5	V
	VFP	IFP=1A		2.7		
Total Radiated Power*	PO	IF=50mA		15		mW
		IFP=1A		240		
Radiant Intensity**	IE	IF=50mA		140		mW/sr
		IFP=1A		2200		
Peak Wavelength	λP	IF=50mA	930		950	nm
Half Width	Δλ	IF=50mA		50		nm
Viewing Half Angle	θ1/2	IF=50mA		±10		deg
Rise Time	tr	IF=50mA		1000		ns
Fall Time	tf	IF=50mA		1000		ns

\* Measured by S3584-08

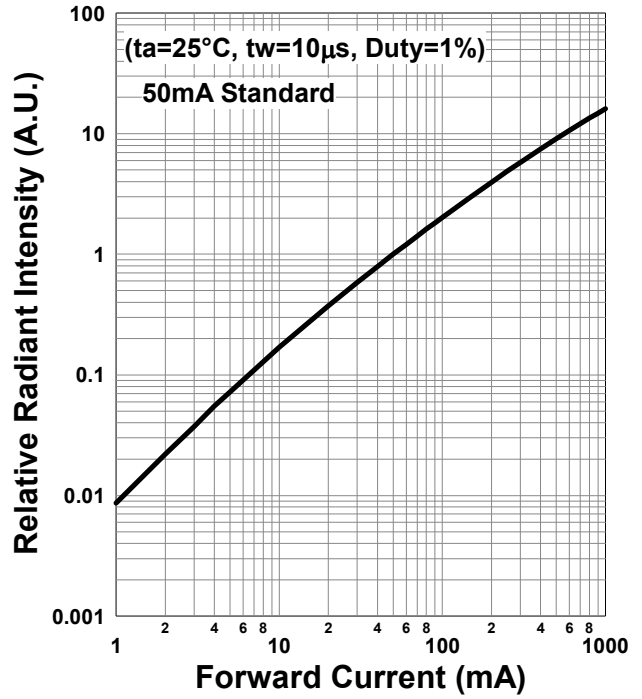
\*\* Measured by CIE127-2007 Condition B



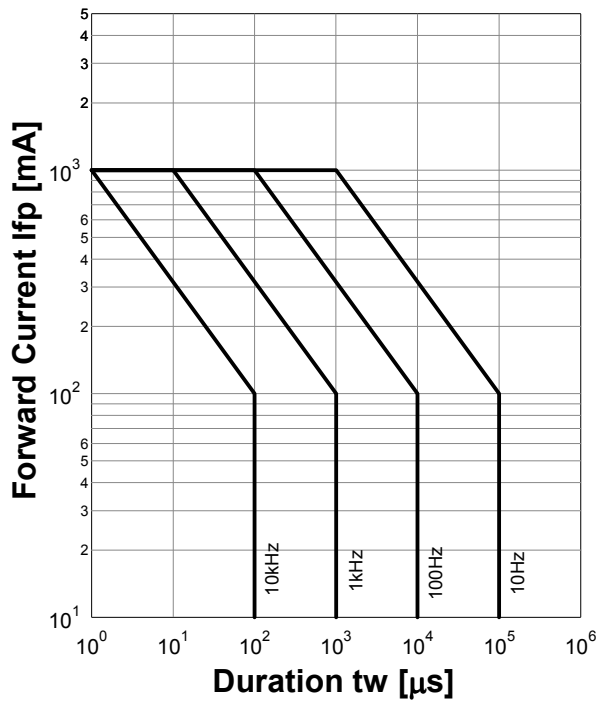
**Forward Current - Forward Voltage**



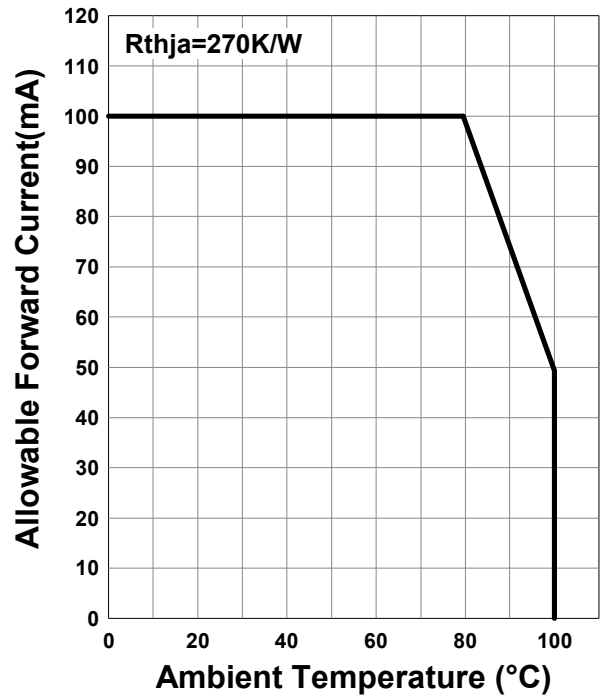
**Relative Radiant Intensity - Forward Current**

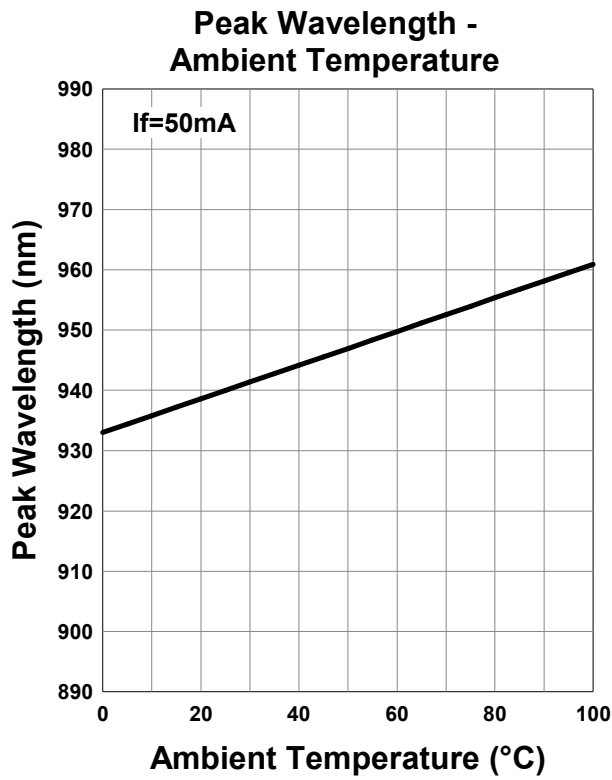
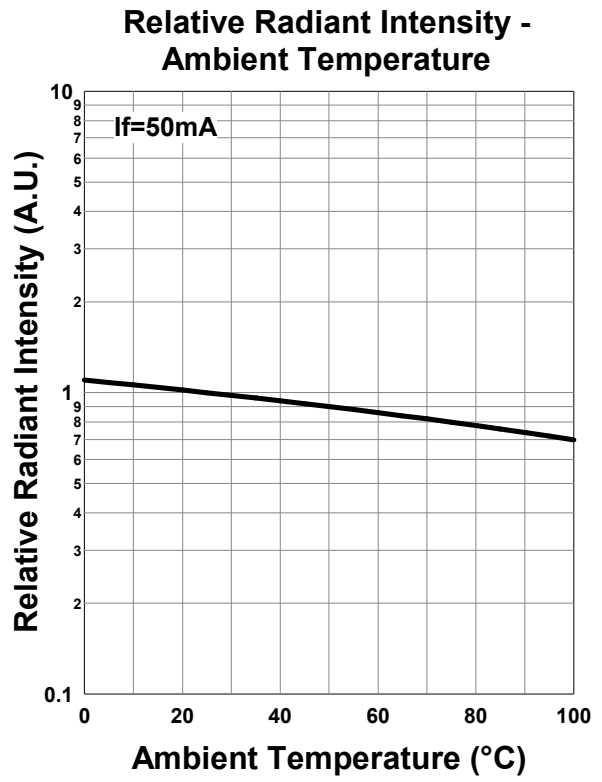
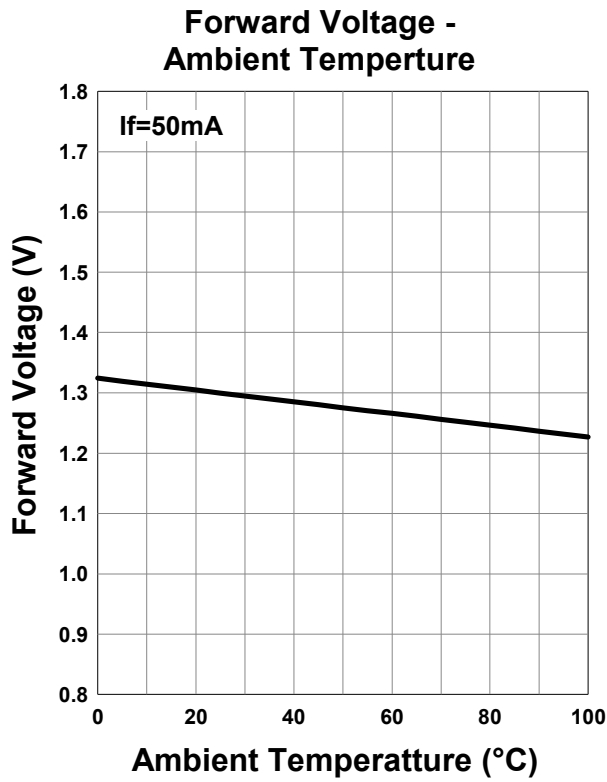


**Forward Current - Pulse Duration**

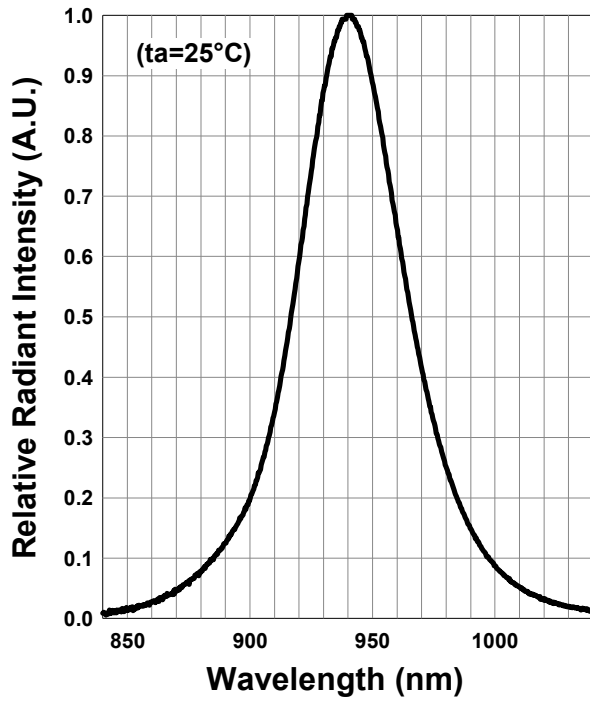


**Allowable Forward Current - Ambient Temperature**

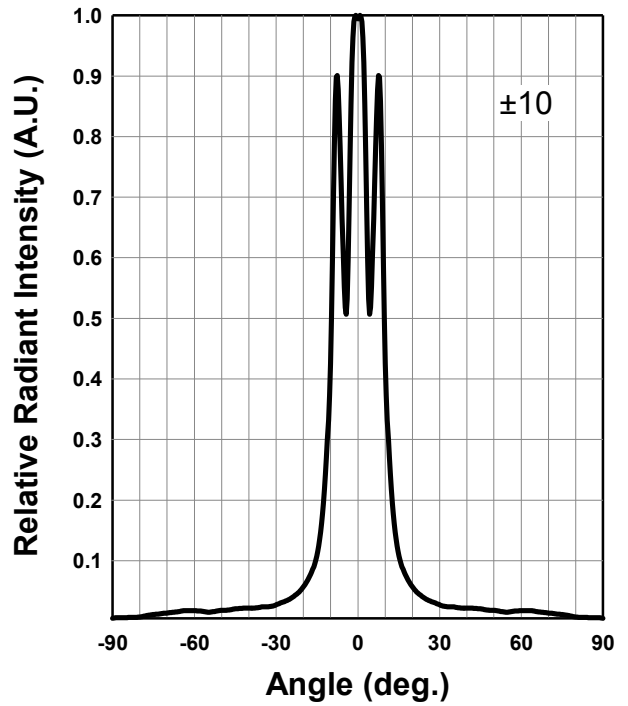




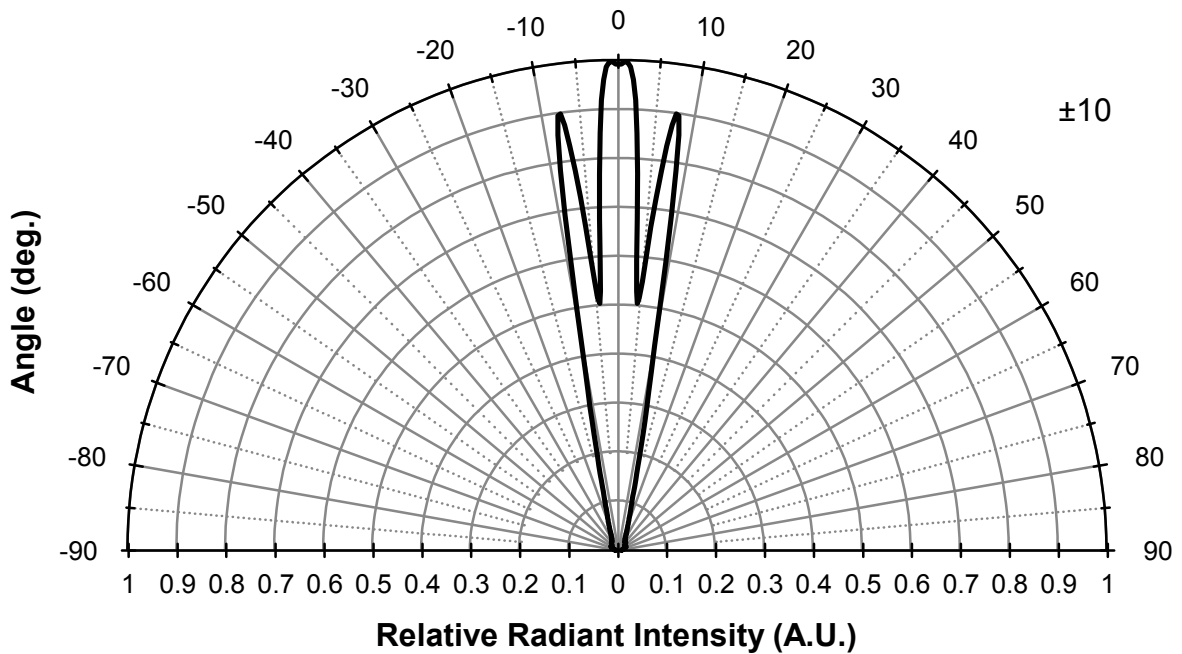
**Relative Spectral Emission**



**Radiation Characteristics**



**Radiation Characteristics**



**Disclaimer**

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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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