

L970-02Infrared LED Lamp

<Specifications>

- Chip Material: GaAs

- Chip Dimension: 400um x 400um

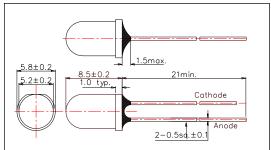
- Number of Chips: 1pcs

- Peak Wavelength: 970nm typ.

Package Type: Φ5mm Clear Molding
Lead Frame: Soldered(Lead Free)

- Lens: Epoxy Resin

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]							
Item	Symbol	Maximum Rated Value	Unit				
Power Dissipation	PD	150	mW				
Forward Current	IF	100	mA				
Pulse Forward Current*	IFP	1000	mA				
Reverse Voltage	VR	5	V				
Junction Temperature	Tj	120	°C				
Thermal Resistance	Rthja	350	K/W				
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.

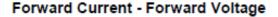
Electro-Optical Characteristics[Tc=25°C]									
Item	Symbol	Condition	Min	Тур	Max	Unit			
Forward Voltage	VF	IF=50mA		1.3	1.5	V			
	VFP	IFP=1A		2.9					
Total Radiated Power*	РО	IF=50mA		7.0		mW			
		IFP=1A		100					
Radiant Intensity**	ΙE	IF=50mA		56		mW			
		IFP=1A		840					
Peak Wavelength	λΡ	IF=50mA	955		975	nm			
Half Width	Δλ	IF=50mA		48		nm			
Viewing Half Angle	θ1/2	IF=50mA		±10		deg			
Rise Time	tr	IF=50mA		200		ns			
Fall Time	tf	IF=50mA		500		ns			

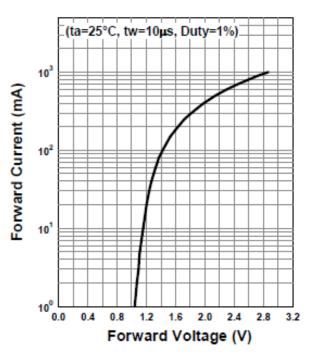
^{*} Measured by S3584-08



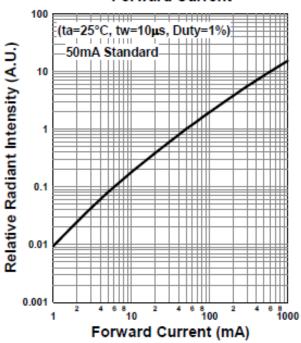
^{**} Measured by CIE127-2007 Condition B



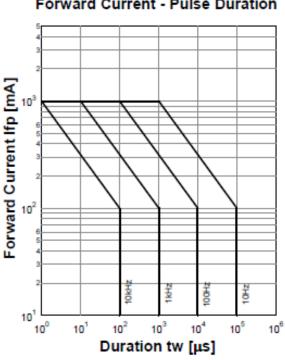




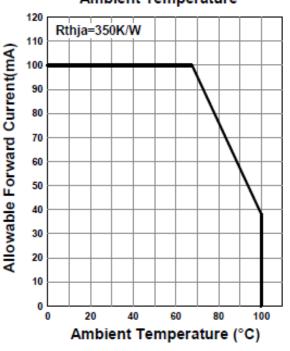
Relative Radiant Intensity -**Forward Current**



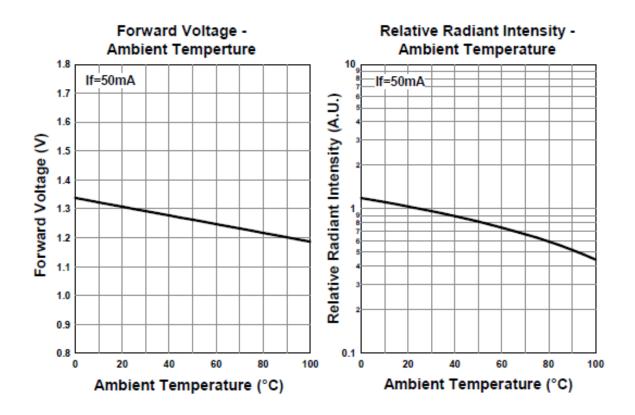
Forward Current - Pulse Duration

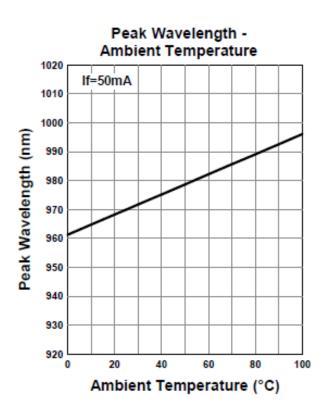


Allowable Forward Current -Ambient Temperature

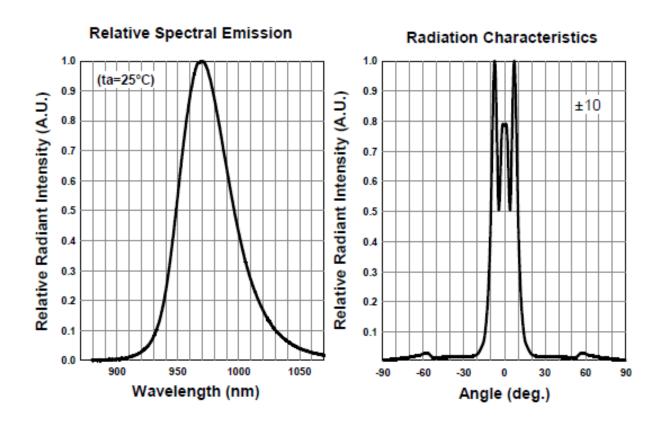


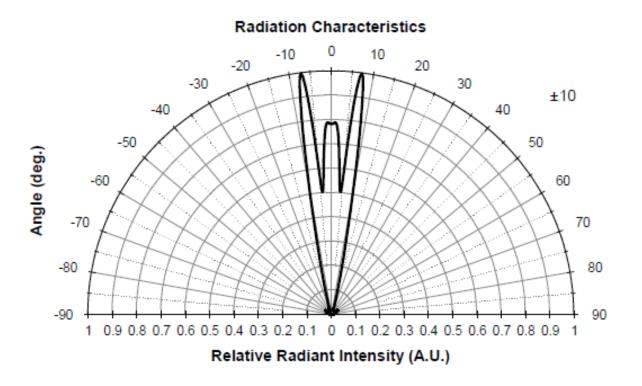














Disclaimer

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.

2017.04