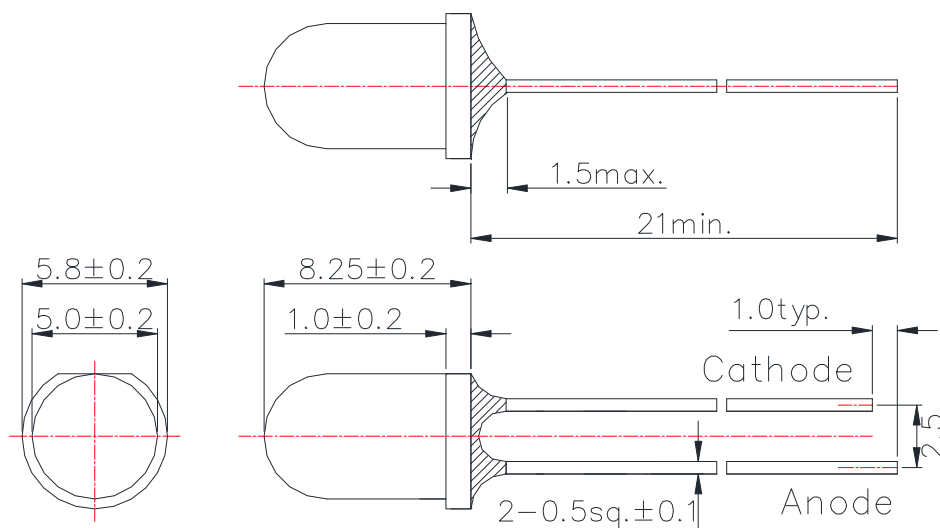


epitex

L570-03

Yellow Green LED Lamp

Outline and Internal Circuit



(Unit : mm)

Features

- Chip Material : AlGaInP
- Chip Dimension : $300 \mu\text{m} * 300 \mu\text{m}$
- Number of Chips : 1pce
- Peak Wavelength : 570 nm typ.
- Package Type : $\phi 5 \text{ mm}$ clear molding
- Lead Frame : Soldered (Lead Free)
- Lens : Epoxy Resin

Application

Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Ratings	Unit
Power Dissipation	PD	50	mW
Forward Current	IF	20	mA
Pulse Forward Current	IFP	100	mA
Reverse Voltage	VR	5	V
Thermal Resistance	Rthjs	300	K/W
Junction Temperature	Tj	120	°C
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +100	°C

‡Pulse Forward Current condition : Duty 1% and Pulse Width=10us.

‡Soldering condition : Refer to technical support information on the website.

Optical and Electrical Characteristics (Tc=25°C)

(*: 100% testing, **: reference value)

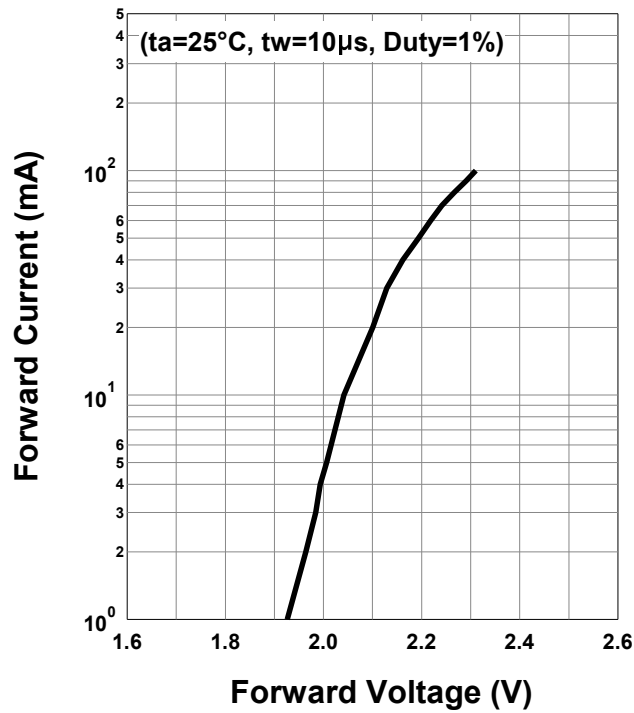
Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage	VF		2.1	2.3	V	IF=20mA*
	VFP		2.3			IFP=100mA**
Reverse Current	IR			10	uA	VR=5V*
Total Radiated Power	PO	0.50	0.75		mW	IF=20mA*
			4.0			IFP=100mA**
Radiant Intensity	IE		3.9		mW/sr	IF=20mA**
			21			IFP=100mA**
Luminous Flux	ΦV		500		mlm	IF=20mA**
Peak Wavelength	λp	560		580	nm	IF=20mA*
Dominant Wavelength	λD		568		nm	IF=20mA**
Half Width	Δλ		11		nm	IF=20mA**
Viewing Half Angle	θ1/2		±12		deg.	IF=20mA**
Rise Time	tr		50		ns	IF=20mA**
Fall Time	tf		30		ns	IF=20mA**

‡ Radiated Power is measured by S3584-08.

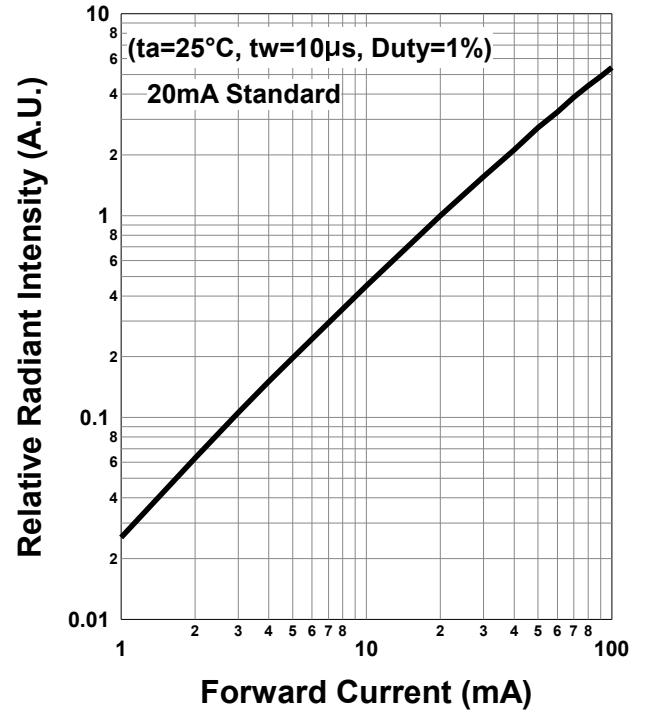
‡ Radiant Intensity is measured by CIE127-2007 Condition B.

Typical Characteristic Curves

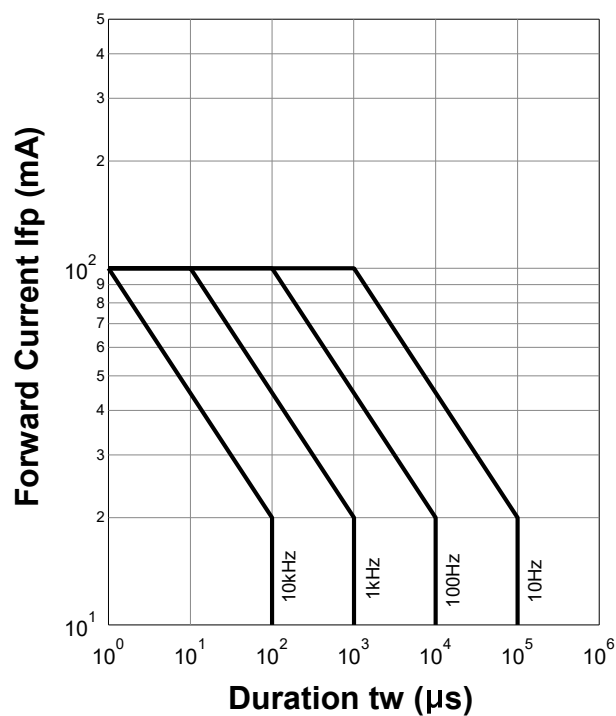
Forward Current - Forward Voltage



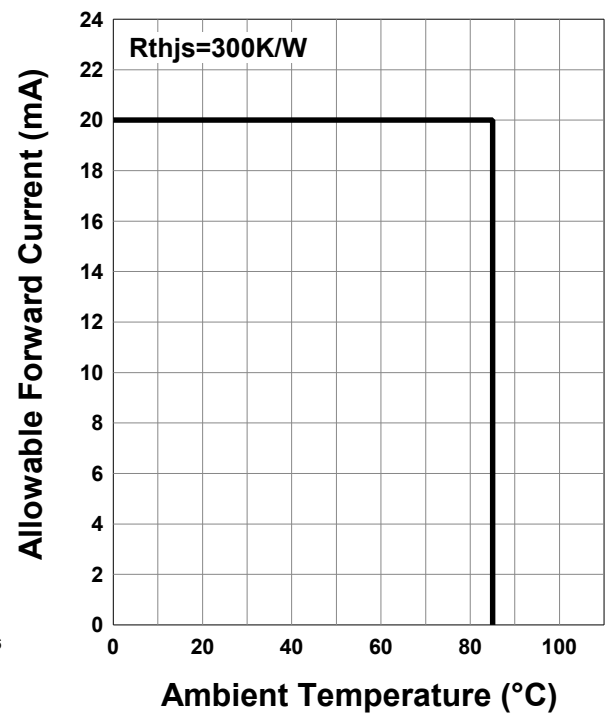
Relative Radiant Intensity - Forward Current

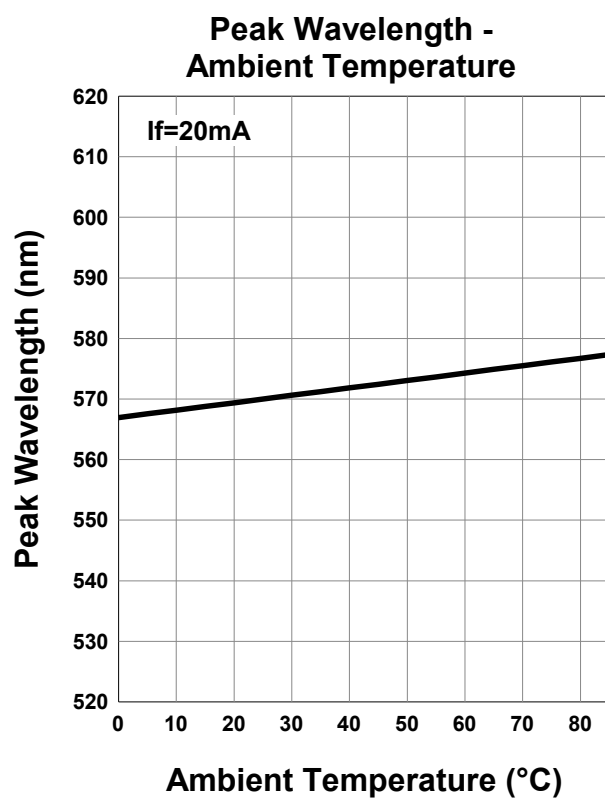
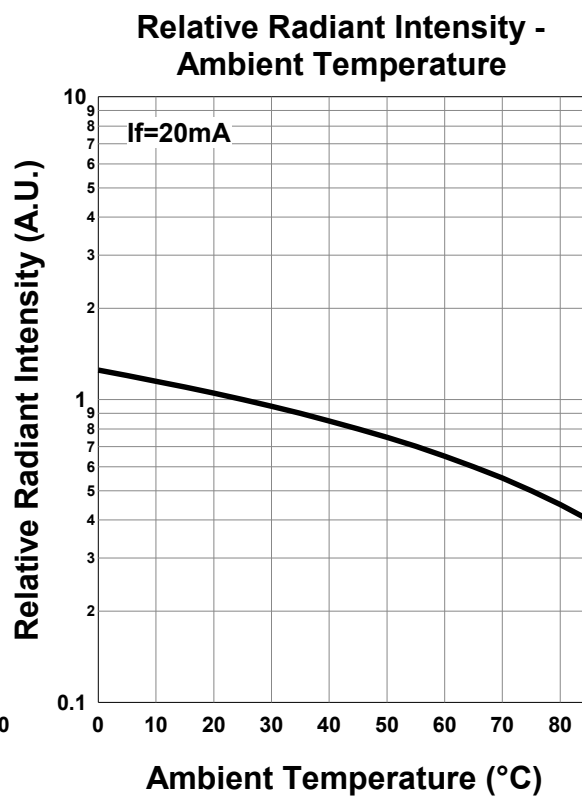
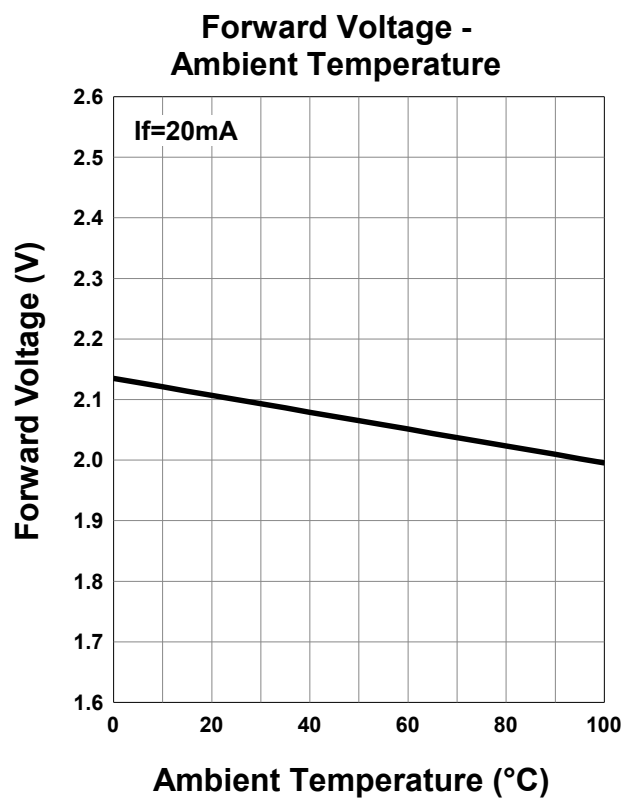


Forward Current - Pulse Duration

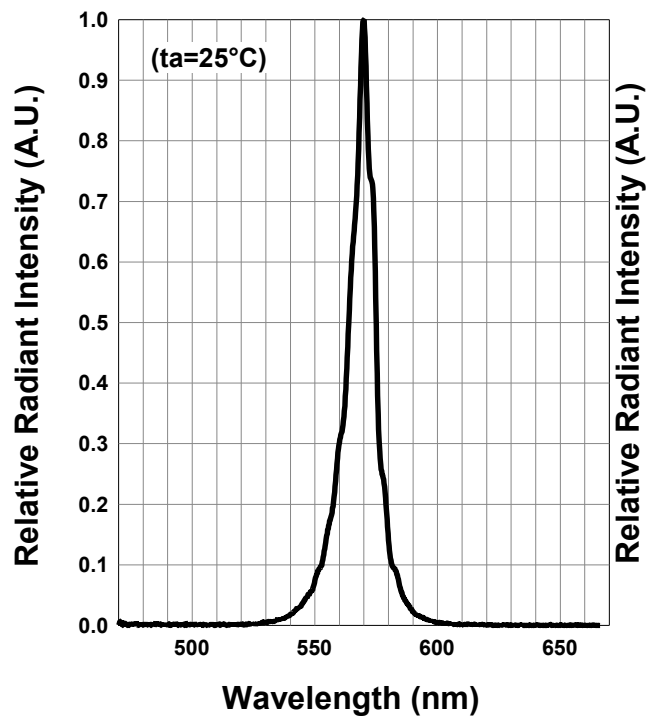


Allowable Forward Current - Ambient Temperature

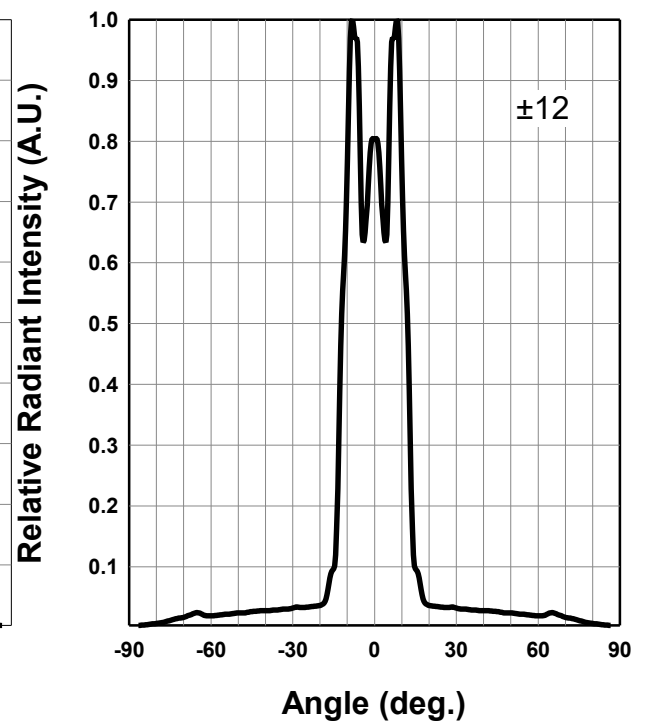




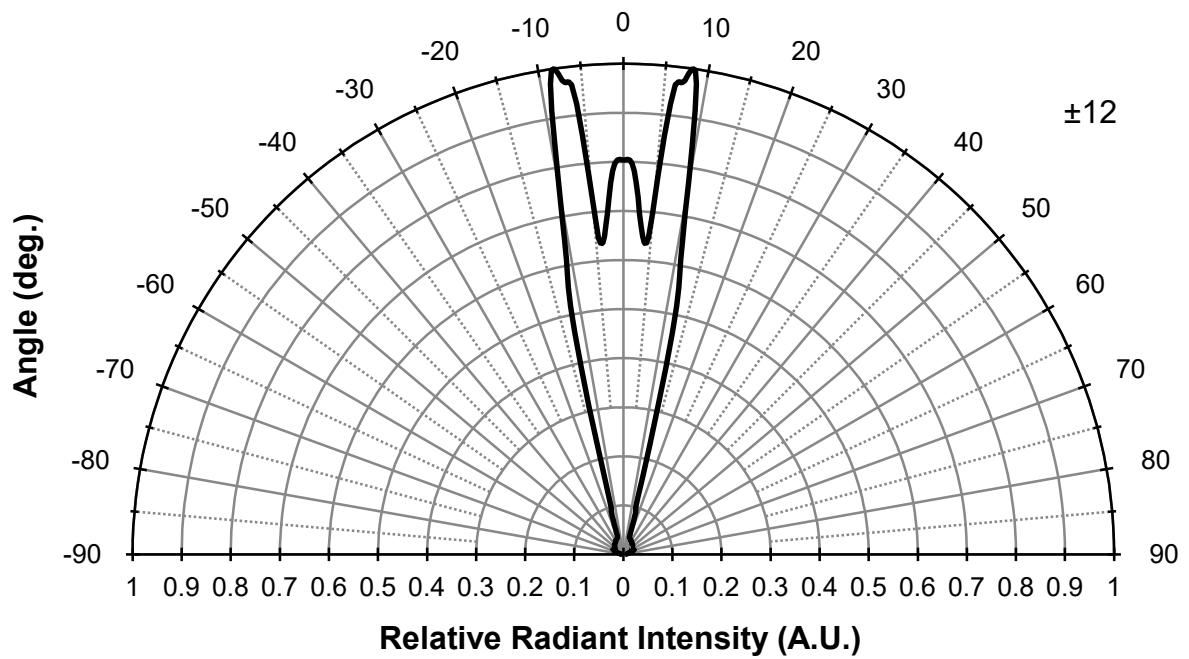
Relative Spectral Emission



Radiation Characteristics



Radiation Characteristics



Disclaimer

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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