

L470-528-2C
Fiber Use Blue LED

L470-528-2C is an InGaN LED mounted on a lead frame with a clear epoxy micro lens for fiber use.

On forward bias, it emits a band of visible light that peaks 470nm.

<Specifications>

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|-------------------------------------|-----------------------------------|
| 1. Product Name: Fiber Use Blue LED | 4.Package |
| 2. Type Number: L470-528-2C | - Type: Φ5mm clear molding |
| 3. Chip: | - Resin Material: Epoxy Resin |
| - Chip material: InGaN | - Lead Frame: Soldered(Lead Free) |
| - Peak Wavelength: 470nm typ. | |

Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	120	mW
Forward Current	IF	30	mA
Pulse Forward Current*	IFP	100	mA
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	250	°C

* Duty=1% and Pulse Width=10μs

** Soldering condition must be completed within 5 second at 250°C.

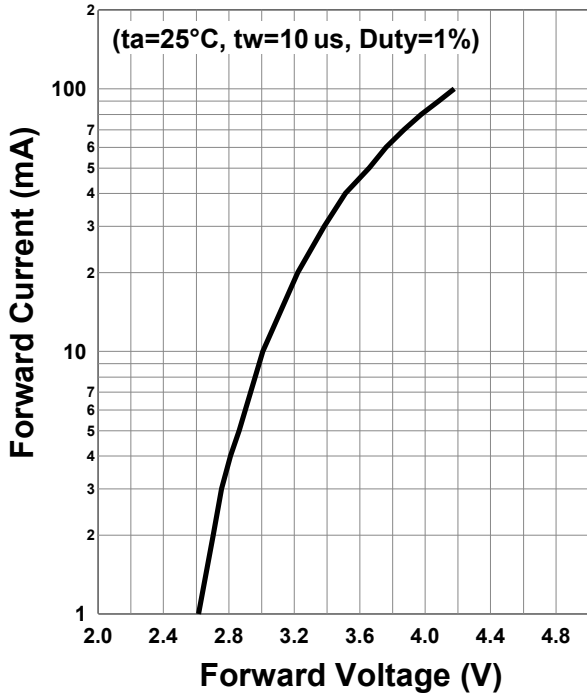
Electro-Optical Characteristics[Tw=25°C]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		3.2	4.0	V
	VFP	IFP=100mA		4.2		
Radiated Power*	PO	IF=20mA		16		mW
		IFP=100mA		66		
Brightness	IV	IF=20mA		1300		mcd
Radiated Intensity**	IE	IF=20mA		34		mW/sr
		IFP=100mA		140		
Peak Wavelength	λP	IF=20mA	460	470	480	nm
Dominant Wavelength	λD	IF=20mA		475		nm
Half Width	Δλ	IF=20mA		22		nm
Viewing Half Angle	θ1/2	IF=20mA		±17		deg
Rise Time	tr	IF=20mA		100		ns
Fall Time	tf	IF=20mA		15		ns

* Measured by S3584-08

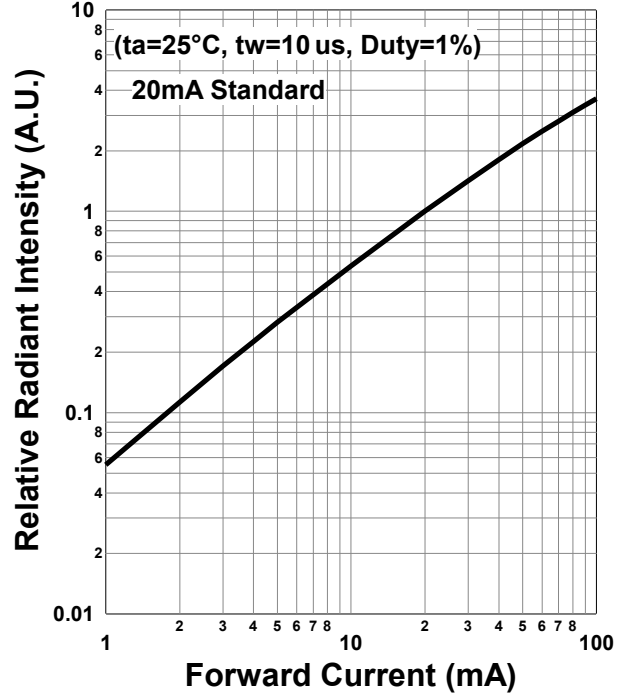
** Measured by CIE127-2007 Condition B



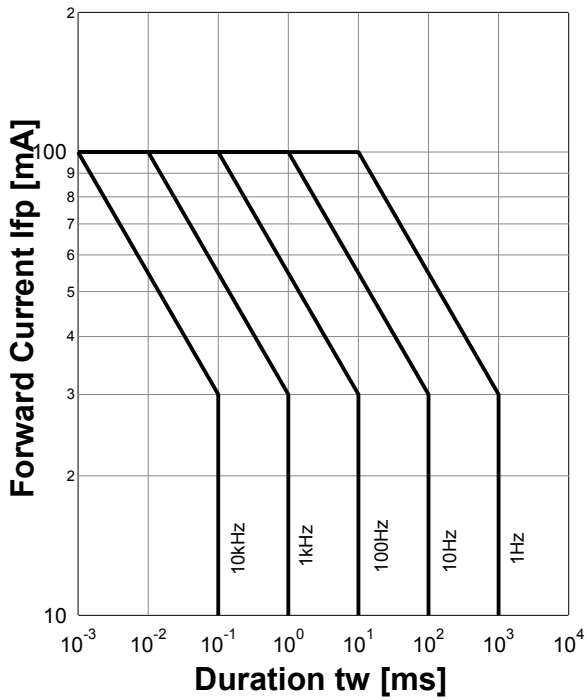
Forward Current - Forward Voltage



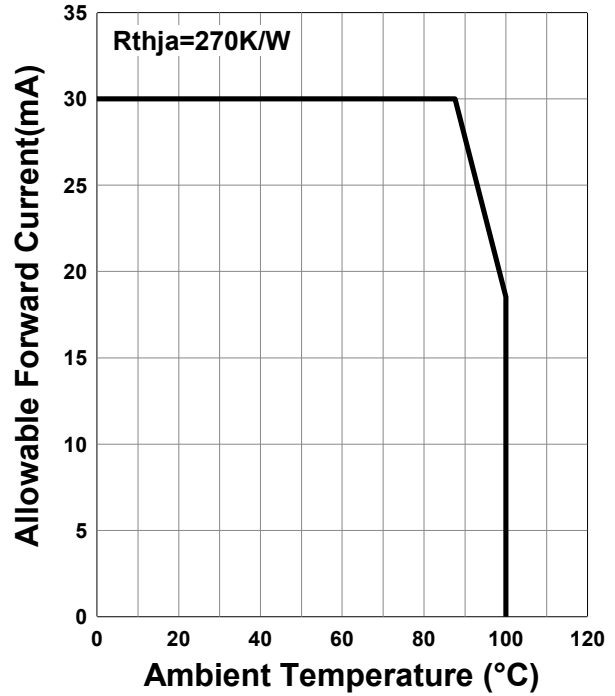
Relative Radiant Intensity - Forward Current

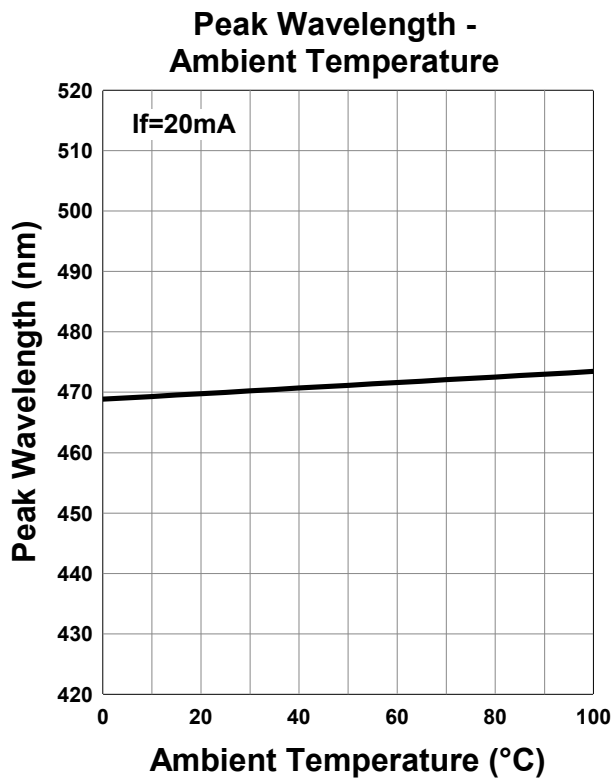
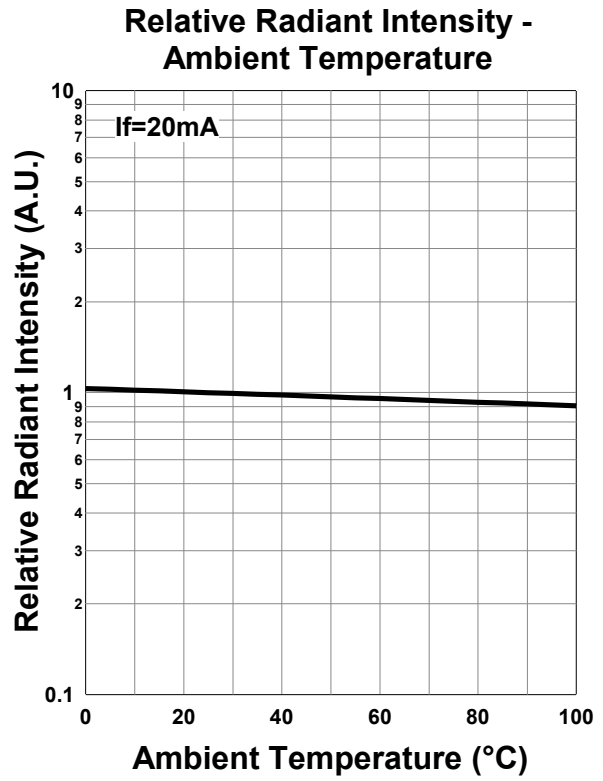
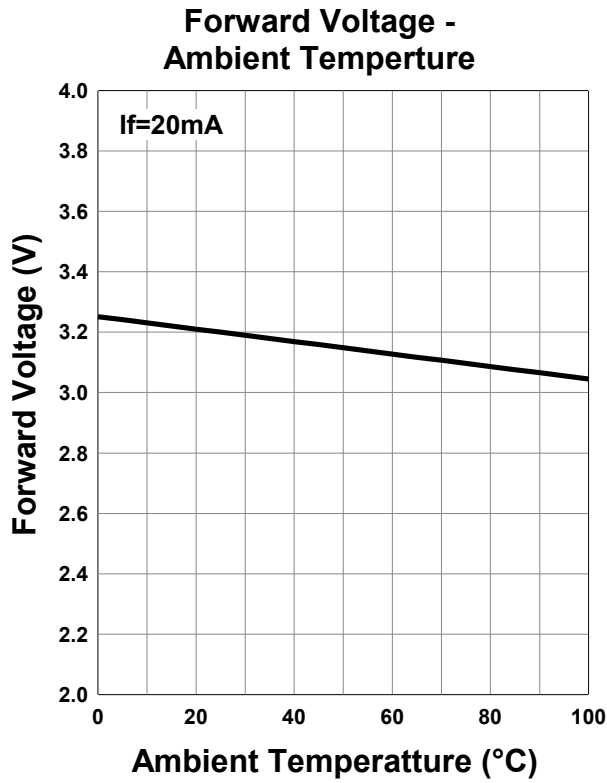


Forward Current - Pulse Duration

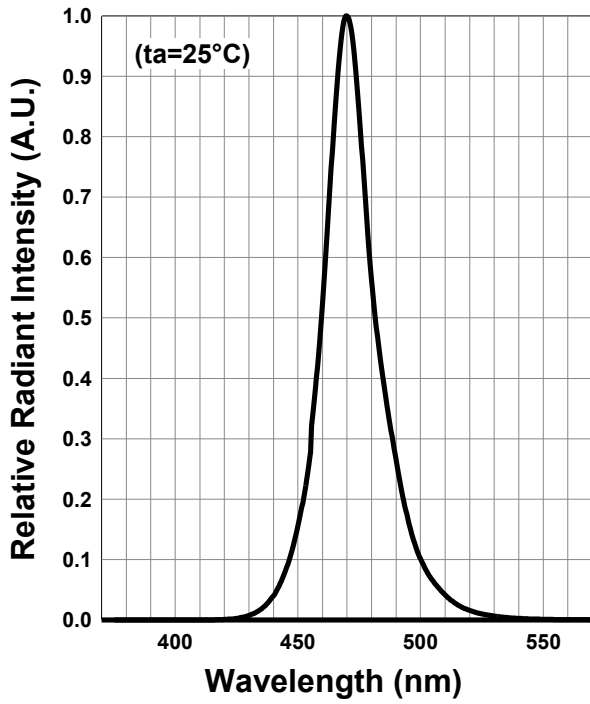


Allowable Forward Current - Ambient Temperature

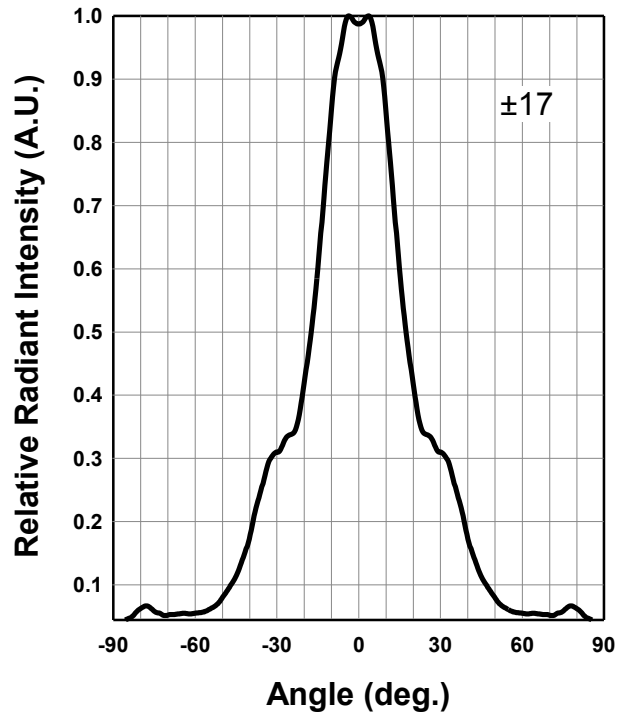




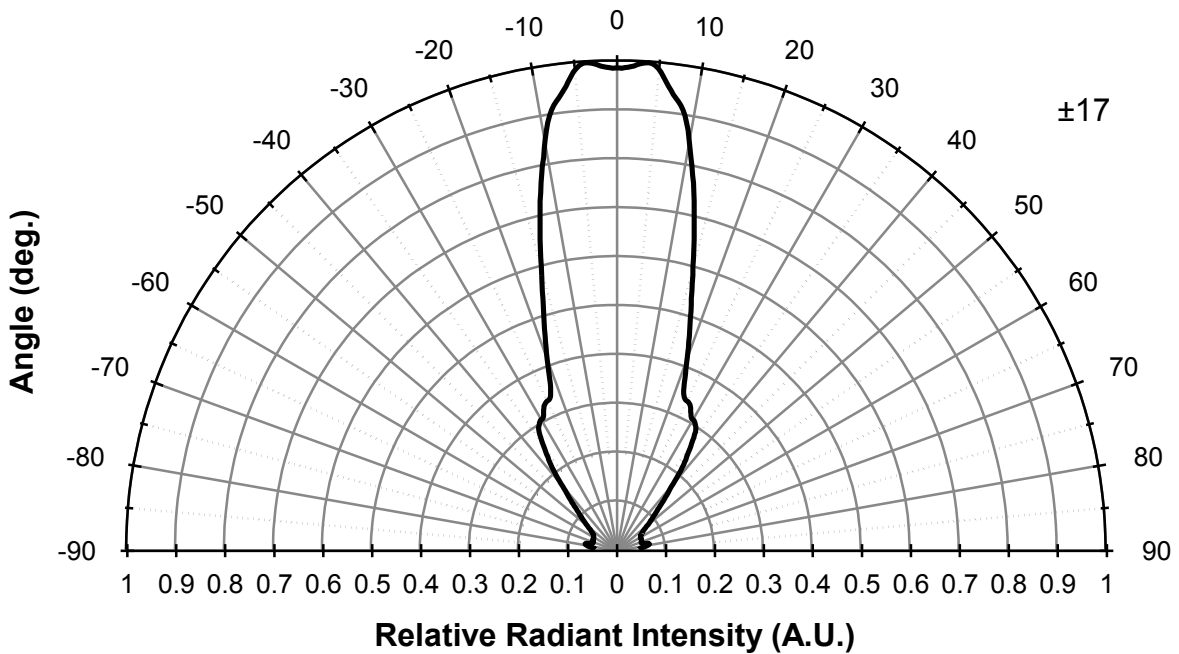
Relative Spectral Emission



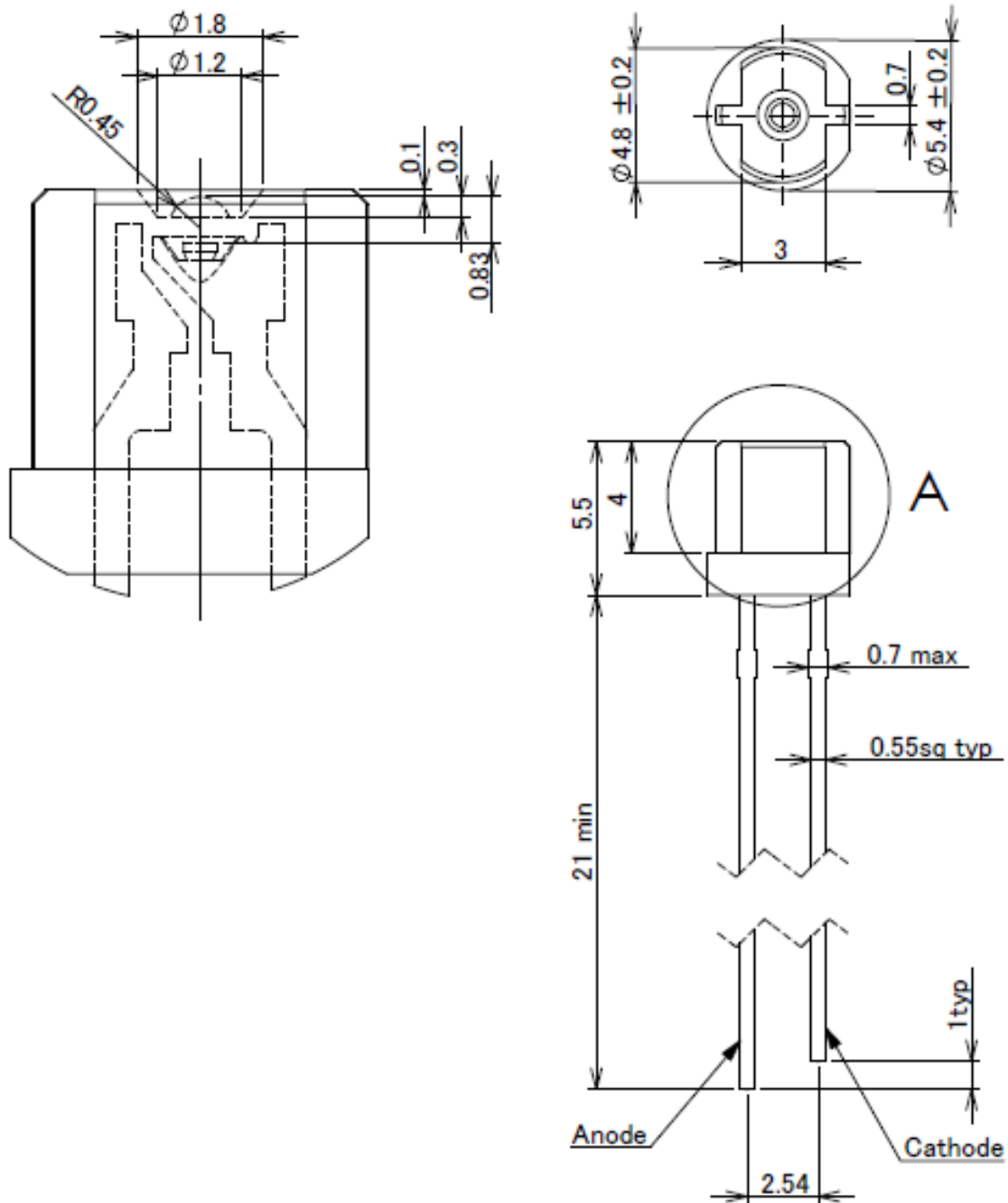
Radiation Characteristics



Radiation Characteristics



Outer dimension (Unit: mm)



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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