5mm Blue LED - 470 nm - T1 3/4 LED w/ 120 Degree Viewing Angle

Part Number: RL5-B12120

UPC: 847781011920

IMPORTANT NOTES. PLEASE READ BEFORE PURCHASING:

Product Description

Super Bright 5mm Blue LED with through hole. Features a 470nm wavelength Blue LED, 1,200 millicandela with 120 degree viewing angle with flat tip. Component LEDs are sensitive electronic devices and require some knowledge of electronic circuits to operate them. Price listed is per unit, however, bulk discounts are available and are automatically applied to your order.

Specifications

Continuous Forward Current	30 mA	**Forward Voltage**	3.3V
LED Color	Blue	**LED Package**	5 mm (T-1 3/4)
Lens	Clear	**Lumen**	4 Lumen
Maximum Forward Voltage	3.8V	**Millicandela**	1200mcd
Operating Temperature	-20~+80 °C	**Peak Forward Current**	100mA
Power Dissipation	120mW	**Reverse Current**	10µA
Reverse Voltage	5V	**Storage Temperature**	-30~+100 °C
Total Power Consumption	0.099 Watts	**Tube Diameter**	T1-3/4
Viewing Angle	120 degree	**Wavelength**	470 nm

Package Dimensions: 0.39" (1cm) x 0.24" (1cm) x 0.24" (1cm)

Package Weight: 0.01oz (0kg)

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Blue LED (InGaAlN)

absolute maximum ratings: (TA=25°C)

PARAMETER	SYMBOL	Rating	UNIT
Power Dissipation	PD	120	mW
Continuous Forward Current	IF	30	mA
Peak Forward Current (1/10th duty cycle, 0.1ms pulse width)	IFM	100	mA
Reverse Voltage	VR	5	V
Operating Temperature	TA	-20~+80	°C
Storage Temperature	Tstg	-30~+100	°C
Reverse Current (VR=5V)	IR	10	µa

Lead Soldering Temperature (3mm from body) 260C (for 3 seconds)

Optoelectric Characteristics

PARAMETER	SYMBOL	MAX	TYP	UNIT	TEST
View Angle of Half Power	2ø1/2	--	120	Degree	--
Forward Voltage	VF	3.8	3.3	V	IF=20mA
Peak Emission Wavelength	ÿP	--	470	nm	IF=20mA
Luminous Intensity	IV	--	1200	mcd	IF=20mA
Absolute Irradiance	--	40	mW	IF=20mA	--

*ONE OF THESE CAN ILLUMINATE A BLACK LIGHT POSTER IN A DARK ROOM

Fig1. Relative Intensity vs. Wavelength

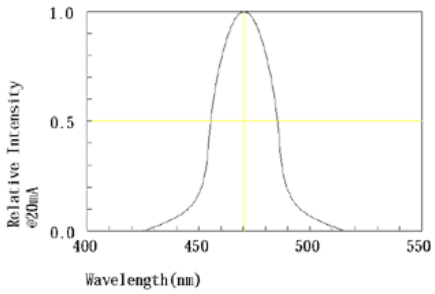


Fig2. Forward Current vs. Forward Voltage

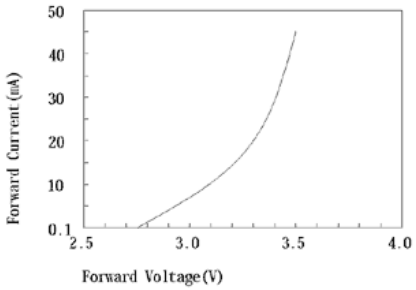


Fig3. Relative Intensity vs. Forward Current

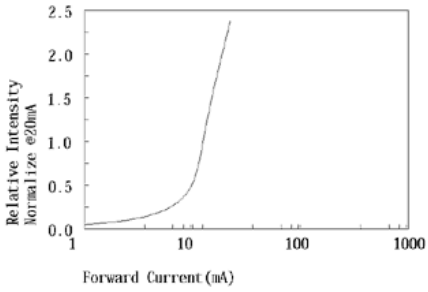
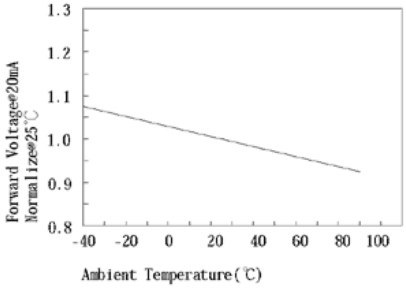


Fig4. Forward Voltage vs. Temperature



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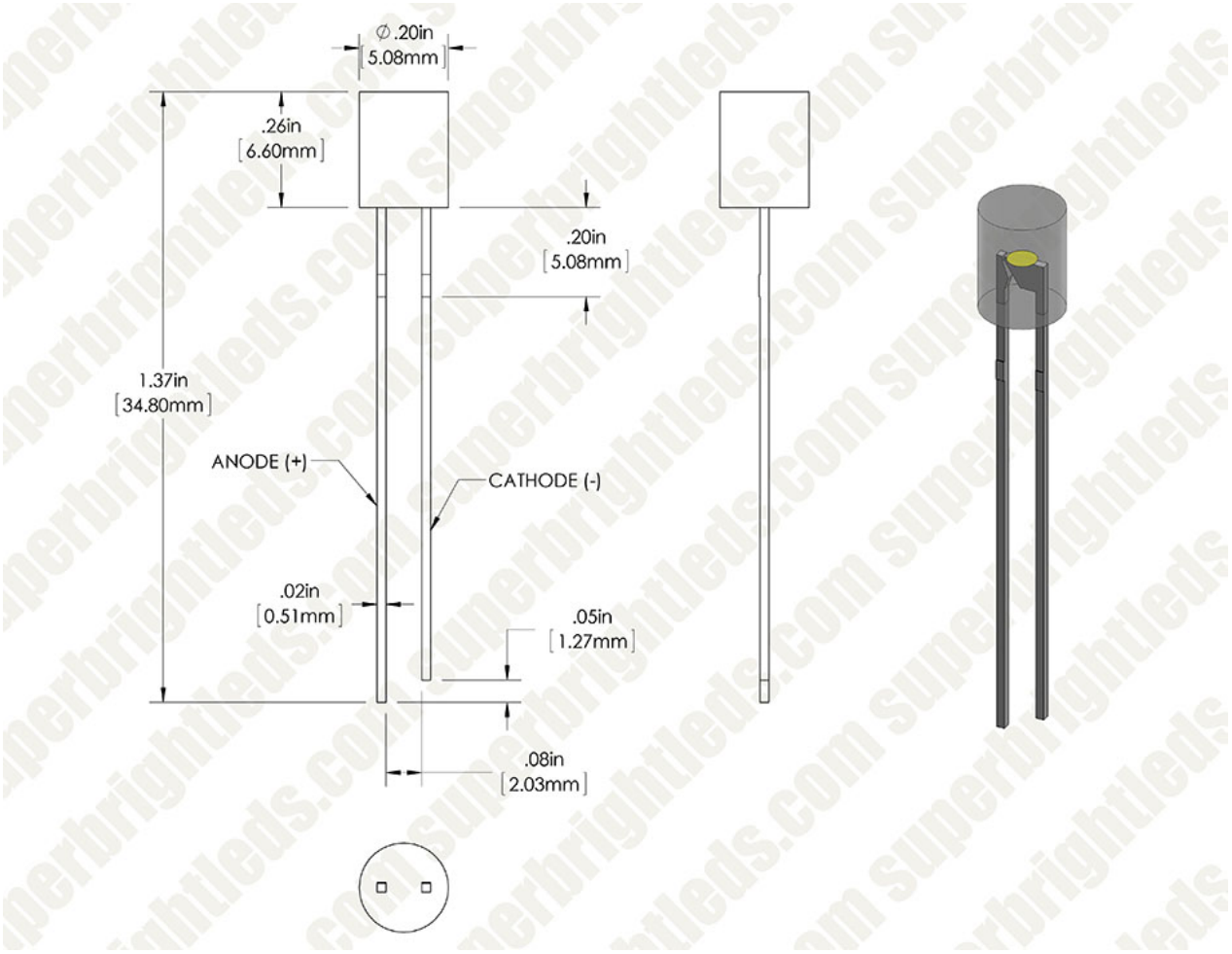
Dimensional Drawing

RL5-B12120 - 5mm Blue LED



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5mm Blue LED

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