L430-_ _ Blue LED Lamp

This series of L430-_ _ is an InGaN LED mounted on a lead frame with a clear epoxy lens. On forward bias, it emits a band of visible light that peaks 430nm.

1) Specifications

(1) Chip material	InGaN
(2) Peak wavelength	430nm typ.
(3) Package	Clear epoxy resin
(4) Lead frame	Soldered

2) Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	PD	120	mW	Ta=25°C
Forward Current	IF	30	mA	Ta=25°C
Reverse Voltage	VR	5	V	Ta=25°C
Operating Temperature	TOPR	-30 ~ +85	°C	Ta=25°C
Storage Temperature	TSTG	-30 ~ +100	°C	
Soldering Temperature	TSOL	260	°C	

3) Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		3.8	4.3	V
Reverse Current	IR	VR=5V			10	uA
Total Radiated Power	PO	IF=20mA		0.3		mW
Peak Wavelength	**I** P	IF=20mA	420	430	440	nm
Half Width	**D I**	IF=20mA		50		nm

4) Characteristics of Brightness [Ta=25°C]

Type	Viewing Half Angle	Brightness IF=20mA unit: mcd			Outer Dimension	
		Minimum	Typical	Maximum	Dimension	Figure
L430-01	±10°		300		ϕ5	1
L430-02	±5°				ϕ5	2
L430-03	±15°		150		ϕ5	3
L430-04	±20°		80		ϕ5	4
L430-05	±40°		10		ϕ5	5
L430-06	±6°		600		ϕ5	6
L430-09	±25°(Long) ±15°(Short)		150		ϕ5 Oval	7
L430-31					ϕ3	8
L430-33	±15°		100		ϕ3	9
L430-34					ϕ3	10
L430-36	±30°		75		ϕ3	11
L430-41	±15°				ϕ4	12
L430-42	±22°				ϕ4	12

‡ Brightness is measured by Tektronix J-16.
‡ Total Radiated Power is measured by Photodyne #500.

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