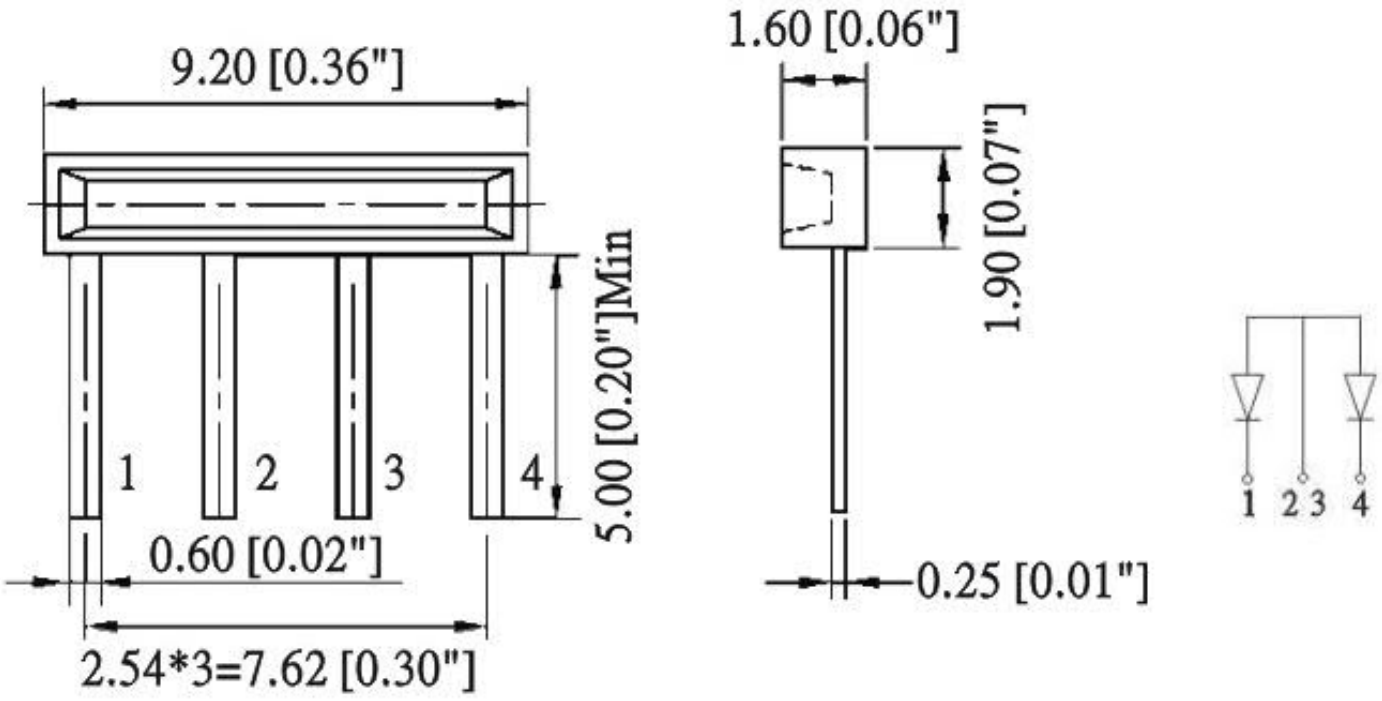
Features:

1. Low power consumption
2. High efficiency
3. Reliable and rugged
4. Chip Material: InGaN
5. Lens Color: Water Clear
6. Source Color: BLUE

Outline Dimensions:



Note：

1. All dimensions are in millimeters (inches)
2. Tolerance is ±0.2mm (0.008”) unless otherwise noted
3. Specifications are subject to change without notices.

Absolute Maximum Ratings at Ta=25℃:

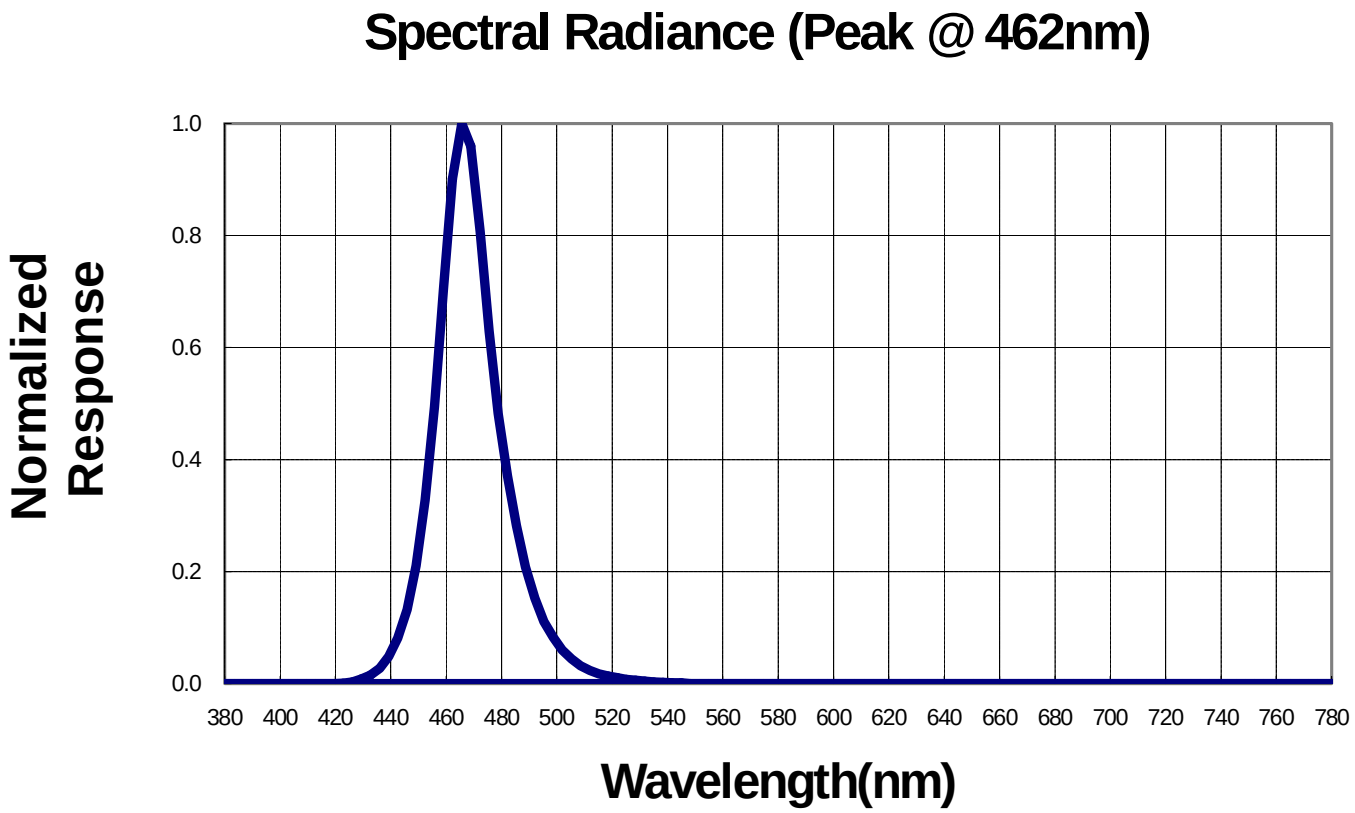
Parameter	Maximum	Unit
Power Dissipation	175	mW
Peak Forward Current (1/10 Duty Cycle,0.1ms Pulse Width)	100	mA
Continuous Forward Current	25	mA
Derating Linear From 50℃	0.3	mA/℃
Reverse Voltage	5	V
Operating Temperature Range	-40℃ to + 80℃	
Storage Temperature Range	-40℃ to + 85℃	

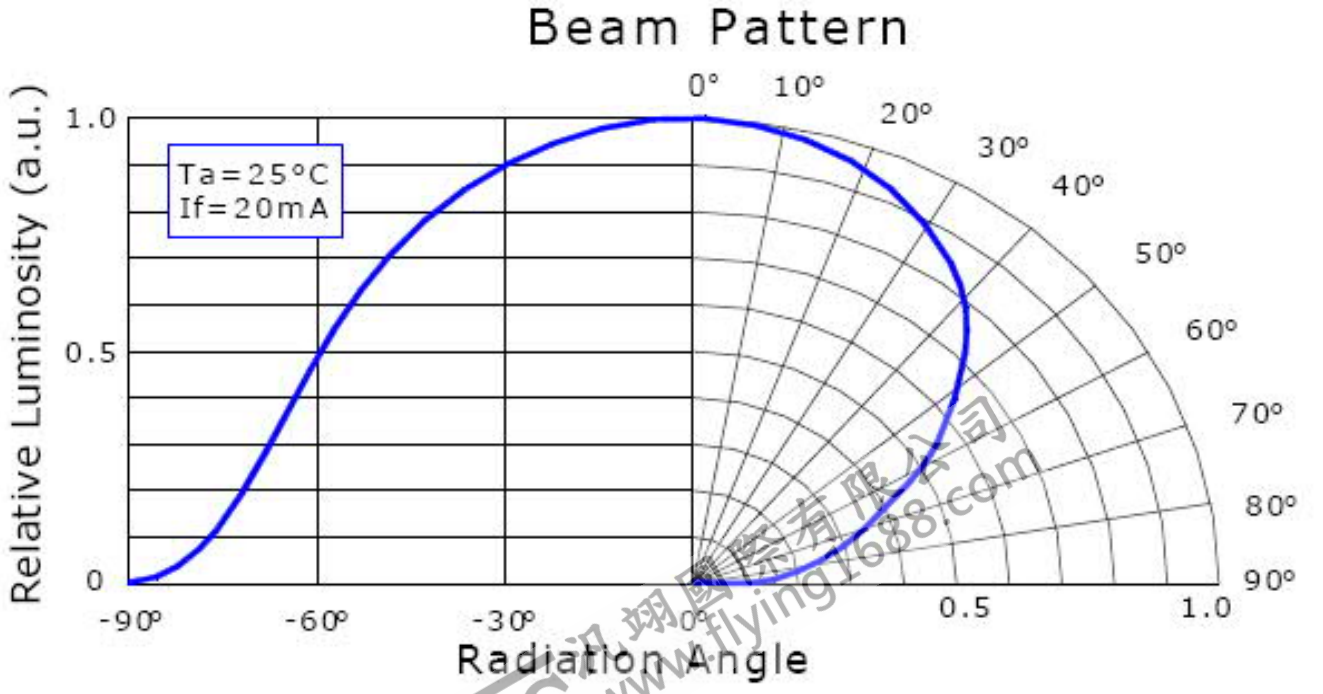
Electrical/Optical Characteristics at Ta=25℃:

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	I_F=20mA	200	350	--	mcd
Dominant Wavelength	λd	I_F=20mA	460	466	475	nm
Viewing Angle	2θ 1/2	I_F=20mA	--	120	--	deg
Forward Voltage	V_F	I_F=20mA	5.6	6.3	7.0	V
Reverse Current	I_R	V_R=5V	--	--	10	uA

Typical Electrical/Optical Characteristics Curve:

(25℃ Ambient Temperature Unless Otherwise Noted)

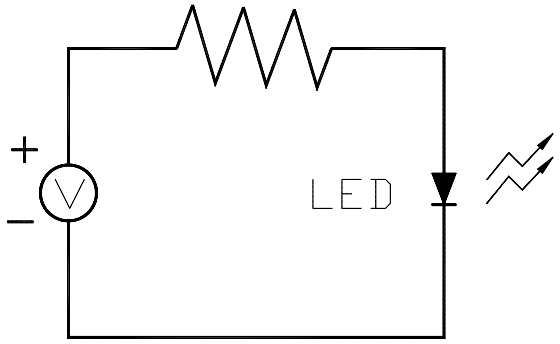




Test items and results of reliability:

Type	Test Item	Test Conditions	Note	Number of Damaged
Environmental Sequence	Temperature Cycle	-20℃ 30min ↑↓ 80℃ 30min	100 cycle	0/22
	Thermal Shock	-20℃ 15min ↑↓ 80℃ 15min	100 cycle	0/22
	High Humidity Heat Cycle	30℃⇔65℃ 90%RH 24hrs/1cycle	10 cycle	0/22
	High Temperature Storage	T_a=80℃	1000 hrs	0/22
	Humidity Heat Storage	T_a=60℃ RH=90%	1000 hrs	0/22
	Low Temperature Storage	T_a=-30℃	1000 hrs	0/22
Operation Sequence	Life Test	T_a=25℃ I_F=20mA	1000 hrs	0/22
	High Humidity Heat Life Test	60℃ RH=90% I_F=10mA	500 hrs	0/22
	Low Temperature Life Test	T_a=-20℃ I_F=20mA	1000 hrs	0/22

Test Circuit & Handling Precautions:



1. Over-current-proof

Customer must apply resistors for protection; otherwise slight voltage shift will cause big current change (Burn out will happen).

2. Shelf life in sealed bag: 12 month at 5℃~30℃ and ＜60% R.H;

3. After the package is Opened:

3.1. It is recommended to baking before the first use:

Baking condition:

a. 60±3℃ x (36~48hrs) and ＜5%RH, taped reel type;

b. 110±3℃ x (8~16hr), bulk type;

3.2 The products should be used within a week:

a. It is recommended to baking before soldering when the pack is unsealed after 72hrs;

b. Baking condition as 3.1 baking condition

Tape & Reel of 2022xx series:

Products (numbers of products are 1,000pcs) packed in a seal off moisture-proof bag