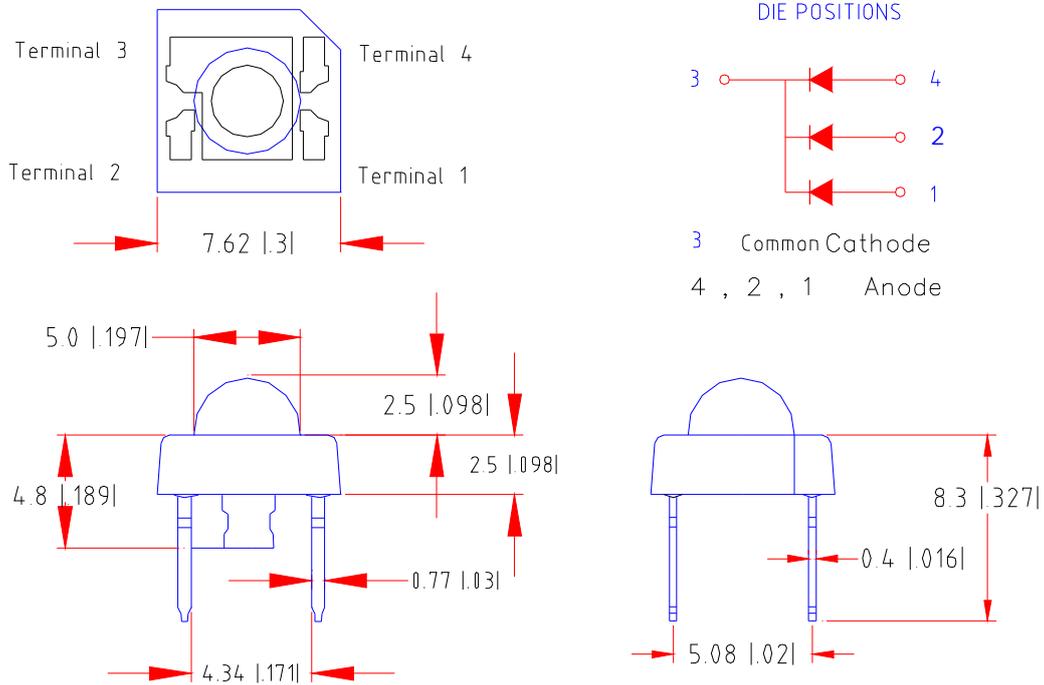


# DATASHEET

## Package Dimensions:



Chip Material	Lens Color	Source Color
GaNN	Water Clear	Super Bright Blue

### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25\text{mm}$  (.010") unless otherwise noted.
3. Protruded resin under flange is 1.0mm (.04") max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice.
6. Precautions for ESD:  
 STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.
7. This data-sheet only valid for six months.

## Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation (per Chip)	120	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	30	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-30°C to +80°C	
Storage Temperature Range	-40°C to +100°C	
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Seconds	

## Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	$I_v$	400	900	3000	mcd	$I_f=20\text{mA}$ (Note 1)
Viewing Angle	$2\theta_{1/2}$	60	70	80	Deg	(Note 2)
Peak Emission Wavelength	$\lambda_p$	463	468	473	nm	$I_f=20\text{mA}$
Dominant Wavelength	$\lambda_d$	460	470	480	nm	$I_f=20\text{mA}$ (Note 3)
Spectral Line Half-Width	$\Delta\lambda$	20	25	30	nm	$I_f=20\text{mA}$
Forward Voltage	$V_f$	2.8	3.5	4.0	V	$I_f=20\text{mA}$
Reverse Current	$I_R$	---	---	100	$\mu\text{A}$	$V_R=5\text{V}$

**Notes:**

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2.  $2\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

**Typical Electrical / Optical Characteristics Curves**

**(25°C Ambient Temperature Unless Otherwise Noted)**

