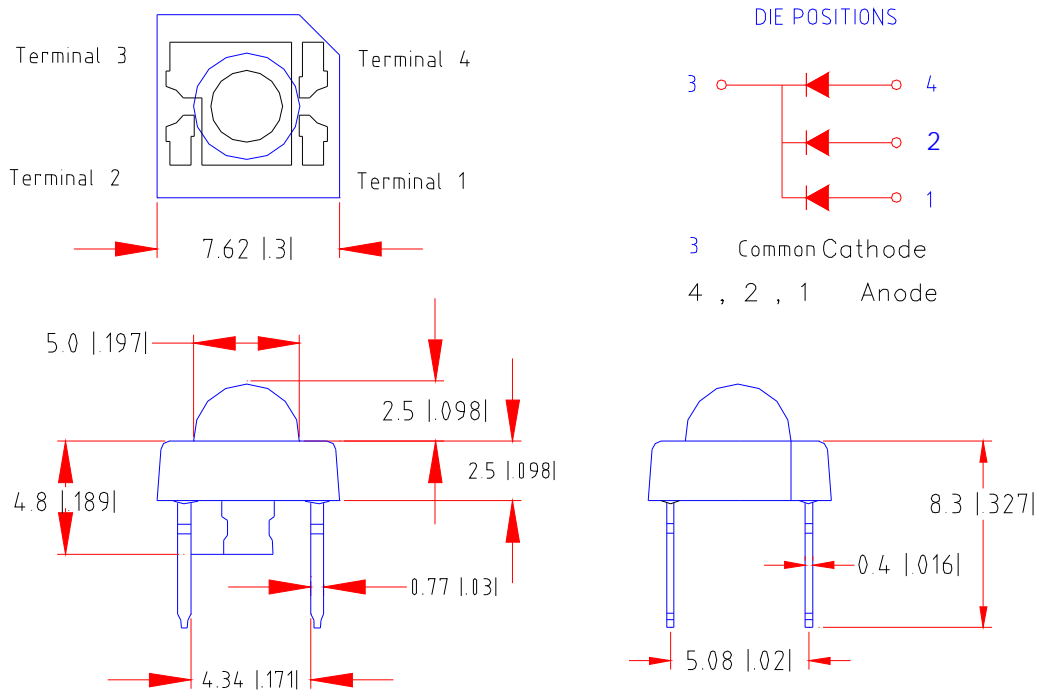


DATASHEET

Package Dimensions:



Chip Material	Lens Color	Source Color
GaNN	Water Clear	White

Notes:

- All dimensions are in millimeters (inches).
- Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
- Protruded resin under flange is 1.0mm (.04") max.
- Lead spacing is measured where the leads emerge from the package.
- Specifications are subject to change without notice.
- 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.
- This data-sheet only valid for six months.

Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	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	-20°C to +80°C	
Storage Temperature Range	-30°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	3300	7500	16000	mcd	$I_f=20\text{mA}$ (Note 1)		
Viewing Angle	$2\theta_{1/2}$	60	70	80	Deg	(Note 2)		
Forward Voltage (Pre Chip)	V_f	2.8	3.5	4.0	V	$I_f=20\text{mA}$		
Reverse Current	I_R	---	---	100	μA	$V_R=5\text{V}$		
BIN Grade	Top		Right		Bottom		Left	
	X	Y	X	Y	X	Y	X	Y
BIN A	0.23	0.23	0.24	0.20	0.22	0.17	0.20	0.19
BIN B	0.25	0.25	0.26	0.23	0.24	0.20	0.23	0.23
BIN C	0.27	0.29	0.29	0.26	0.26	0.23	0.25	0.25
BIN D	0.29	0.32	0.32	0.30	0.29	0.26	0.27	0.29
BIN E	0.32	0.36	0.34	0.34	0.32	0.30	0.29	0.32

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)

