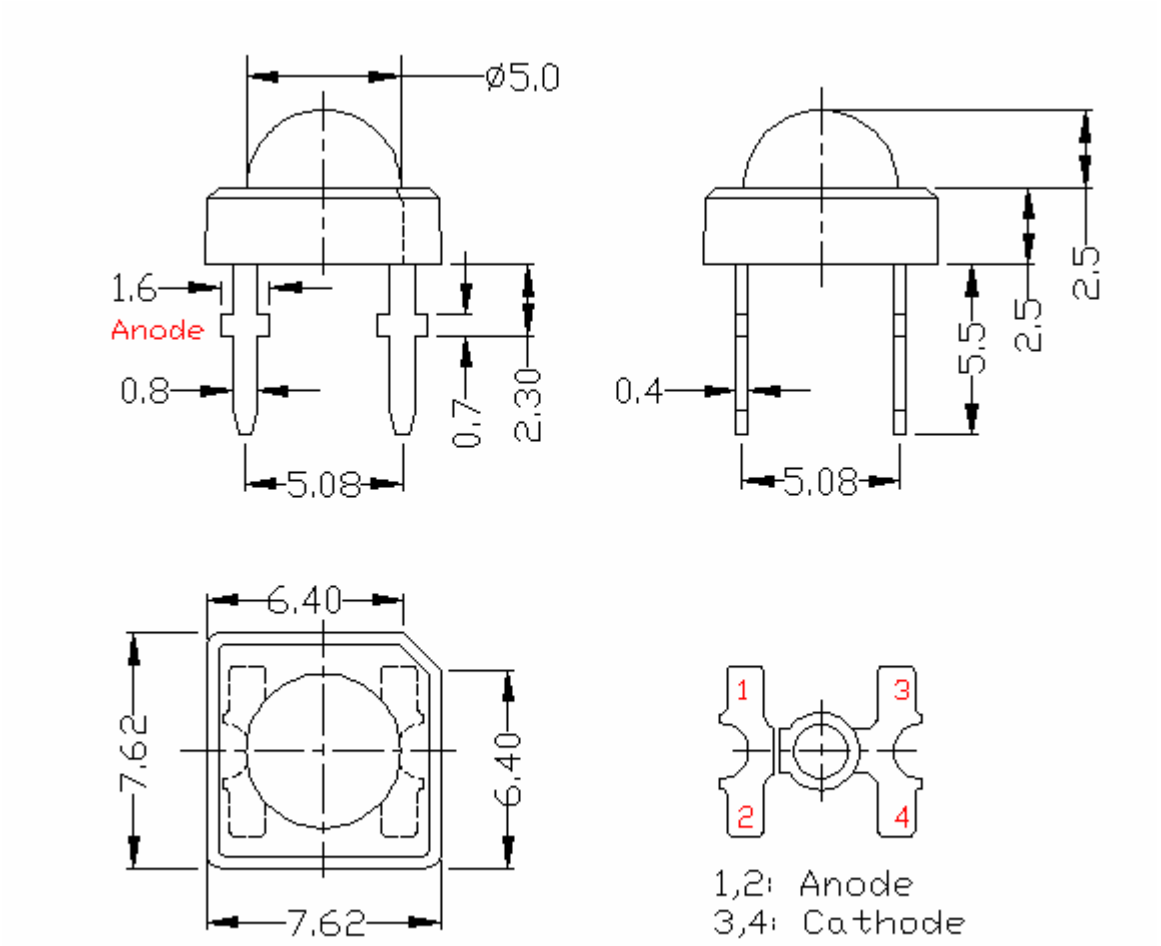
Package Dimensions:



Part No.	Chip Material	Lens Color	Source Color
CL-F525W20	InGaN	Water Clear	White

Notes:

1.All dimensions are in millimeters.
2.Tolerance is ±0.25mm unless otherwise noted.
3.Lead spacing is measured where the leads emerge from the package.
4.Specifications are subject to change without notice.
5.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.

Absolute Maximum Ratings at Ta=25℃

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

Electrical Optical Characteristics at Ta=25℃

Parameter	Symbol	Min.	Typ.	Max	Unit	Test Condition
Luminous Intensity	Iv	2000	2500	3000	mcd	I_f=20mA(Note 1)
Viewing Angle	$2\theta_{1/2}$	85	90	95	Deg	(Note 2)
Forward Voltage	V_f	3.0	3.2	3.4	V	I_f=20mA
Reverse Current	I_R			10	μA	V_R=5V

BIN Grade	Top		Right		Bottom		Left	
	X	Y	X	Y	X	Y	X	Y
BIN A	0.23	0.23	0.23	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	0.27	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	0.30	0.32

Notes:

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