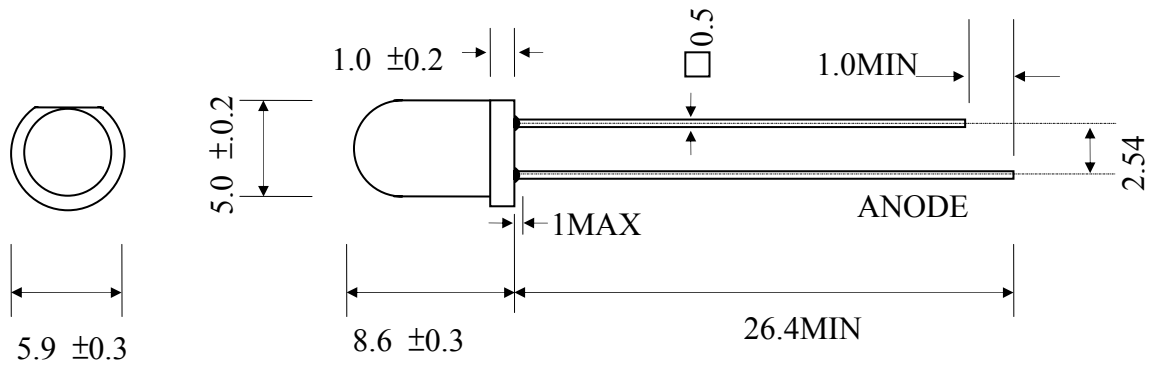


Light Emitting Diode Lamp

★ Package Dimensions



NOTE:

- 1.All dimensions are in millimeter.
- 2.Lead spacing is measured where the lead emerge from the package.

★ Selection Guide

Part NO.	Chip		Lens Color	Viewing Angle $2\theta_{1/2}$ (deg)
	Material	Emitted Color		
5-22-WC37-ID	GaN	Blue	Water clear	30

Light Emitting Diode Lamp

Part No: 5-22-WC37-ID

★Absolute Maximum Ratings

(Ta=25°C)

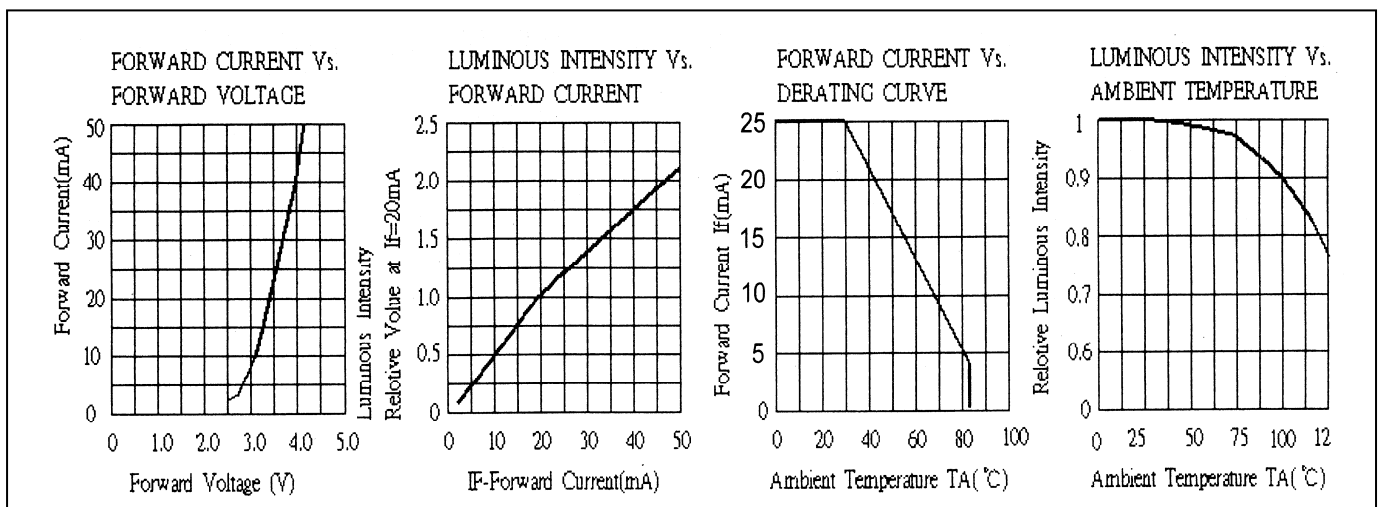
Parameter	Symbol	MAX. Rating	Unit
Power Dissipation	Pd	100	mW
Continuous Forward Current	IF	30	mA
Peak forward current (10μs Pulse)	IFM	100	mA
Reverse Voltage	VR	5.0	V
Operating Temperature	Topr	-40~+85	°C
Storage Temperature	Tstg	-40~+85	°C
Lead Soldering Temperature (1.6mm From Case Bottom 260°C For 5 SEC)			

★Electric-Optical Characteristics

Parameter	Symbol	Test Condition	MIN	TYP	MAX	Unit
Forward Voltage	VF	IF=20mA		3.2	3.8	V
Reverse Voltage	VR	IR=10uA	5			V
Luminous Intensity	IV	IF=20mA	1700	2500		mcd
Peak Emission Wavelength	λP	IF=20mA		470		nm
Spectrum Width Of Half Value	Δλ	IF=20mA		30		nm

★Measurement Uncertainty of the Luminous Intensity:±10%

★Characteristics Diagrams



Light Emitting Diode Lamp

Part No: 5-22-WC37-ID

★Reliability Test

No	Item	Test Condition	Test Hours/Cycles	Samples Tested	Acc./Rej
1	Room Temperature DC Operating Life	Ta=25°C, I _F =20mA	1000 Hrs	76	0/1
2	Thermal Shock	-10°C (5min)→(10sec)→+100°C (5min)	100 Cycles	76	0/1
3	Temperature Cycle	-40°C (30min)→(5min)→+85°C (30min)	100 Cycles	76	0/1
4	High Temp./ High Humi. Test	85°C/85%RH	1000 Hrs	76	0/1
5	High Temperature Storage	Ta=100°C	1000 Hrs	76	0/1
6	Low Temperature Storage	Ta= - 40°C	1000 Hrs	76	0/1
7	Soldering Heat	260°C±5°C	5 Seconds	76	0/1