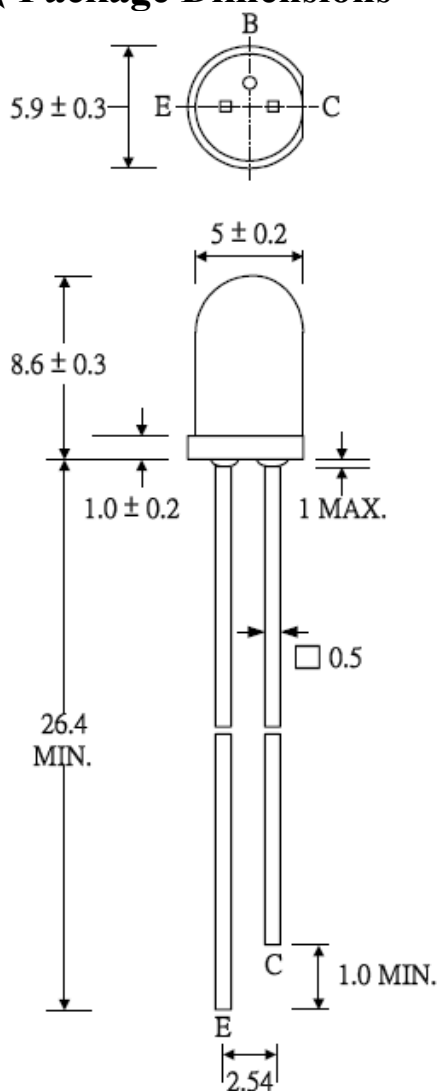


## Light Emitting Diode Lamp

### ★ 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
	Material	Emitted Color		
5-29-WC2A	GaAlAs	/	Water clear	30

## Light Emitting Diode Lamp

**Part No: 5-29-WC2A**

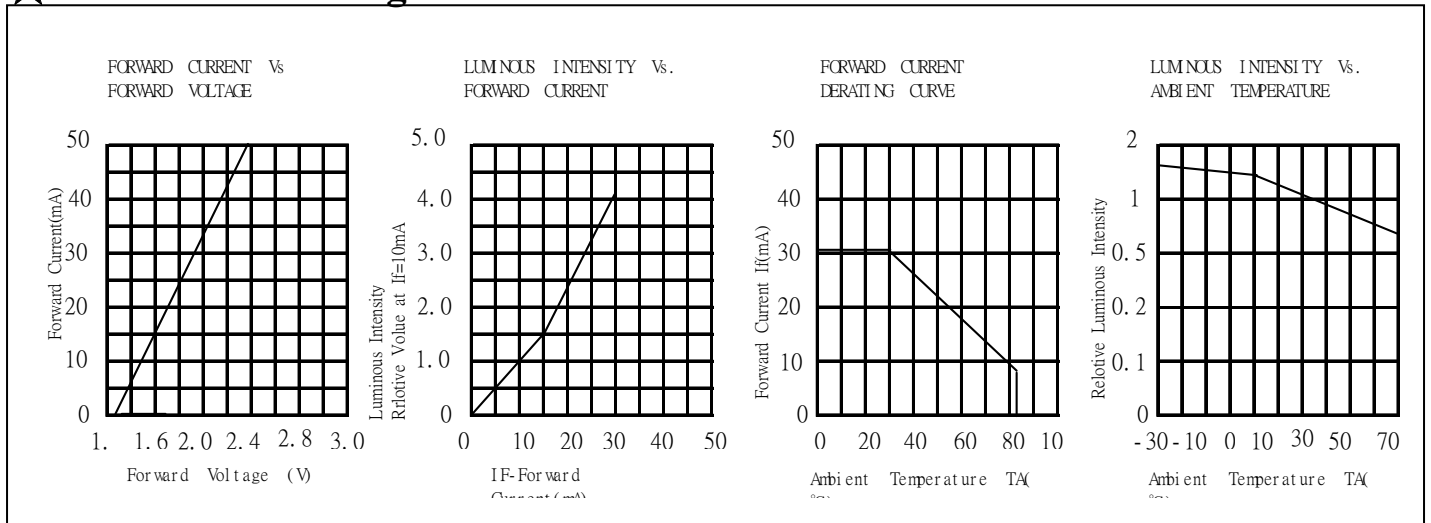
### ★Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	MAX. Rating	Unit
Collector-to-Emitter Breakdown Voltage	VBR CEO	30	V
Emitter-to-Collector Breakdown Voltage	VBR ECO	5	V
Power Dissipation at (or Below)25°C Free Air Temperature	PD	100	mw
Operating Temperature	Topr	-40~+85	°C
Storage Temperature	Tstg	-40~+85	°C
Lead Soldering Temperature (5 mm From Case Bottom 260°C For 5 SEC)			

### ★Electric-Optical Characteristics

Parameter	Test Condition	MIN	TYP	MAX
Collector-to-Emitter Breakdown Voltage	Ic=100uA	60V		
Emitter-to-Collector Breakdown Voltage	IE=100uA	5V		
Collector Dark Current	VCE=20V			1uA
Collector-Emitter Saturation Voltage	Ic=2mA/IB=100uA			0.3V

### ★Characteristics Diagrams



**Light Emitting Diode Lamp****Part No: 5-29-WC2A****★Reliability Test**

No	Item	Test Condition	Test Hours/Cycles	Samples Tested	Acc./Rej
1	Room Temperature DC Oper-ating Life	Ta=25°C, I <sub>F</sub> =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