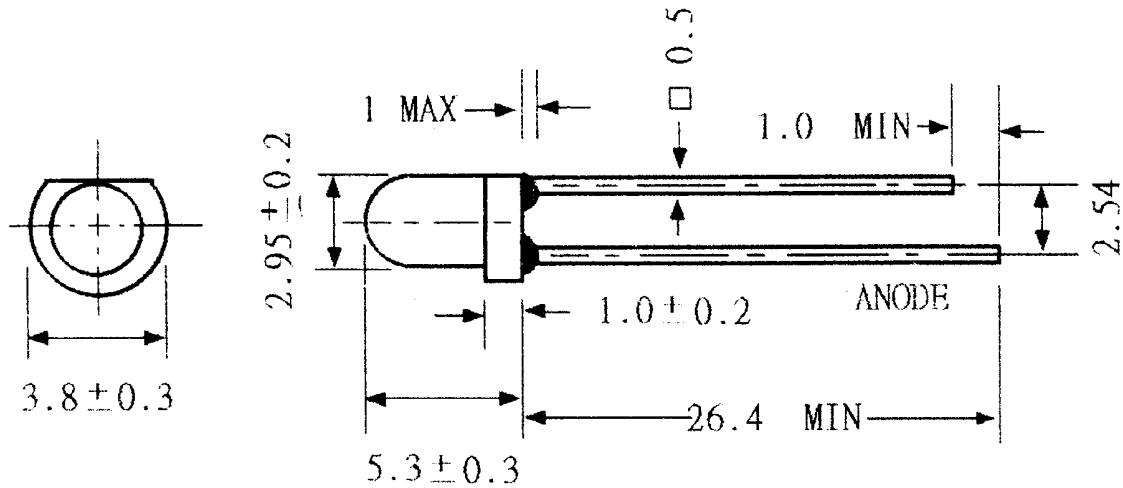


Light Emitting Diode Lamp

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 2θ 1/2
	Material	Emitted Color		
3-29B-WC2B	GaAlAs	/	Water clear	/

Light Emitting Diode Lamp

Part No: 3-29B-WC2B

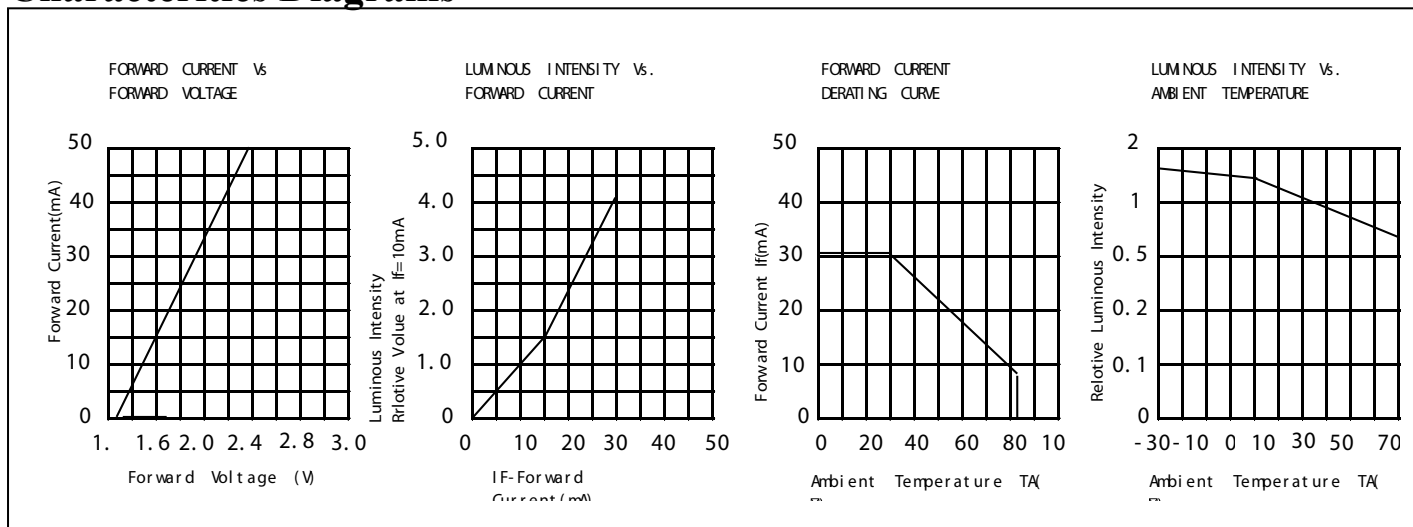
Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	MAX. Rating	Unit
Power Dissipation	Pd	80	mW
Continuous Forward Current	IF	30	mA
Pak forward current (10μ s 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	Test Condition	MIN	TYP	MAX
Light Current Typical	@Ee=1mw/Cm ²		1.0mA	
Dark Current Maximum	@Vce=10V		100nA	
Vce(sat) Maximum	@1c=0.5mA		0.4V	
Vceo Minimum	@1c=1mA		30V	

Characteristics Diagrams



Light Emitting Diode Lamp**Part No: 3-29B-WC2B****Reliability Test**

No	Item	Test Condition	Test Hours/Cycles	Samples Tested	Acc./Rej
1	Room Temperature DC Oper-ating 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