

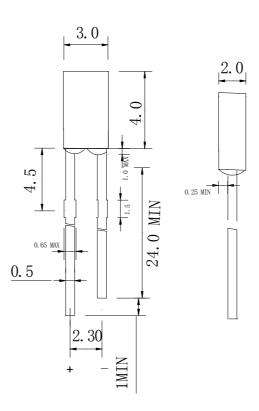
Features

- · 2*3*4. DIA LED Lamp
- · Low Power Consumption
- · High Efficiency
- · Various Colors and Viewing Angle
- · Long Solid State Reliability
- · Package: 1000pcs/Packing

Applications

· Indicator

Package Dimensions



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm(.01") unless otherwise noted.
- 3. Protruded Resin under flange is 1.0mm(0.04") max.
- 4. Specifications are subject to change without notice.

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FDL-234GD-ZGDLTHQ-P23

Selection Guide

Part No	Lens Type	Dice	Emitted Color
FDL-234GD-ZGDLTHQ-P23	Green Diffused	GaAsP	Super Green

Electrical / Optical Characteristics At Ta=25°C

Symbol	Parameter	Min.	Тур.	Max.	Unit Test Condition	
Iv	Luminous Intensity	5.0	9.0	15.0	mcd	IF=20mA
201/2	Viewing Angle		175		deg	IF=20mA
入 d	Dominant Wavelength	564	570	574	nm	IF=20mA
$\triangle \lambda$	Spectral Line Half-Width		35		nm	IF=20mA
VF	Forward Voltage	2.2	2.3	2.6	V	IF=20mA
IR	Reverse Current			10	uA	VR 5V

Note:

Absolute Maximum Ratings At Ta=25℃

Parameter	Green	Unit	
Power Dissipation	70	mW	
Peak Forward Current[1]	120	mA	
Continuous Forward Current	30	mA	
Reverse Voltage	5	V	
Operating Temperature Range	-40°C to + 85°C		
Storage Temperature Range	-40°C to + 85°C		
Soldering Condition	260°C For 5 Seconds		

Note:

 $1.\ 1/10 Duty Cycle, 0.1 ms Pulse Width$

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 $^{1.\,\}theta 1/2$ is the angle from optical centerline where the luminous intensity is 1/2 optical centerline value



Electrical Optical Characteristics Curves At Ta=25°C

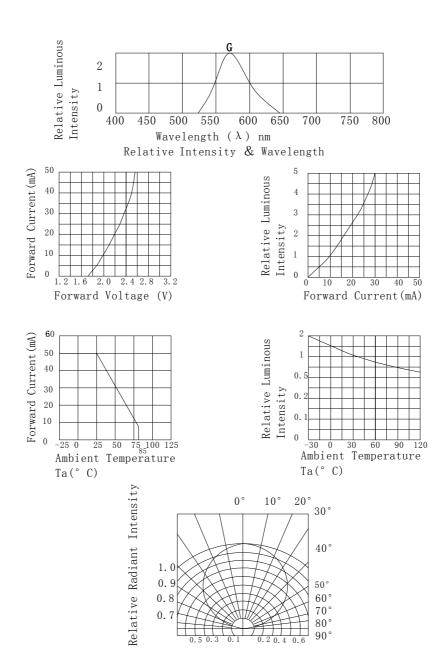


Fig. 6 Radiation Diagram

Notes:

- 1. The LEDs should be used within a year.
- 2. The LEDs should be kept in $5\sim30^{\circ}$ C and 60% RH for less.
- 3. The LEDs should be used within 24 hours, or else should be kept a 5~30°C and 30% RH or less. And LEDs should be used within 7 days after opening the package.

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Reliability Test Items Conditions

Classification	Test Item	Test Conditions	Test hours	Result
Endurance Test	Opertion Life	Connect with a power IF=20mA Ta=Under room temperature	1000Hrs	0/20
	Hige Temperature High Humidity	Ta=+65°C±5°C RH=90%-95%	240Hrs	0/20
	Hige Temperature Storage	High Ta=+85°C±5°C	1000Hrs	0/20
	Low Temperature Storage	Low Ta=-35°C±5°C Test time=1000hrs	1000Hrs	0/20
Environmental Test	Temperature Cycling	-45°C∼+105°C 15min 5min 15min	300 Cycles	0/20
	Thermal Shock	-35°C~±5°C~+85°C~±5°C 5min 10sec 5min	300 Cycles	0/20
	Solder Resistance	Preheating: 120°C-150°C, within 2 minutes. Operation heating: 260°C (Max.), within 5 seconds (Max.)	5Cycles	0/20

Judgment criteria of failure for the reliability

Measuring items	Symbol	Measuring conditions	Judgment criteria for failure
Forward voltage	V _F (V)	IF=20mA	Over U×1.2
Reverse current	Ir(µA)	V _R =5V	Over U×2
Luminous intensity	Iv(mcd)	I _F =20mA	Below S×0.5

Note: 1.U means the upper limit of specified characteristics. S means initial value.

2.Meansurment shall be taken between 2 hours after the test pieces have been returned to normal ambient conditions after completion of each test.

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