

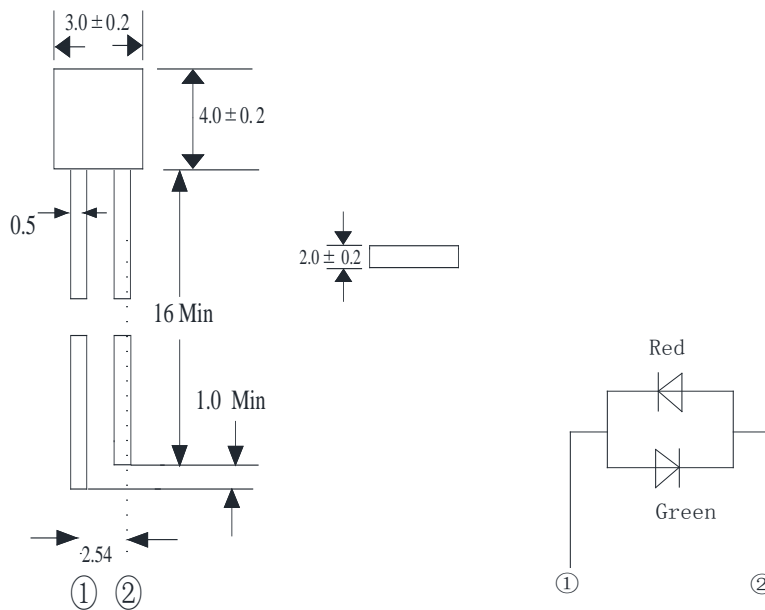
**Features**

- 3mm 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  $\pm 0.25$ mm(.01") unless otherwise noted.
3. Protruded Resin under flange is 1.0mm(0.04") max.
4. Specifications are subject to change without notice.
5. This drawing is only for reference, not as a basis for the actual structure.



**FDL-2342GR-ZWSDP**

**Selection Guide**

Part No	Lens Type	Dice	Emitted Color
FDL-2342GR-ZWSDP	White Diffused	AlGaInP	Deep Red Brilliant Yellow Green

**Electrical / Optical Characteristics At Ta=25 °C**

Symbol	Parameter	Min. Green/Red	Typ. Green/Red	Max. Green/Red	Unit	Test Condition
Iv	Luminous Intensity	5.4/5.4	77/77	90/90	mcd	IF=20mA
2 θ 1/2	Viewing Angle		170		deg	IF=20mA
λ Peak	Peak Emission Wavelength		575/650		nm	IF=20mA
λ d	Peak Emission Wavelength		573/639		nm	IF=20mA
Δλ	Spectral Line Half-Width		20/20		nm	IF=20mA
VF	Forward Voltage		2.0/2.0	2.5/2.5	V	IF=20mA
IR	Reverse Current			10/10	μ A	VR 5V

Note:

- Right for red color.  
Left for green color.
- θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 optical centerline value

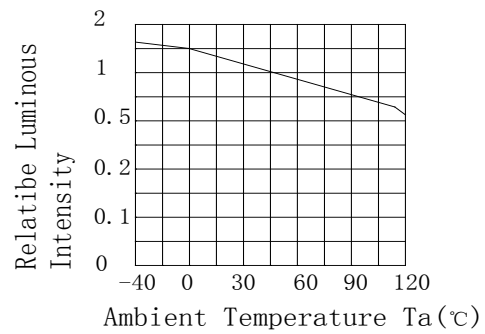
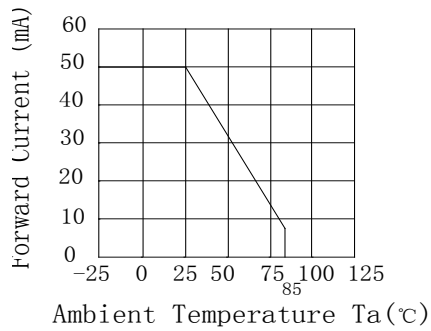
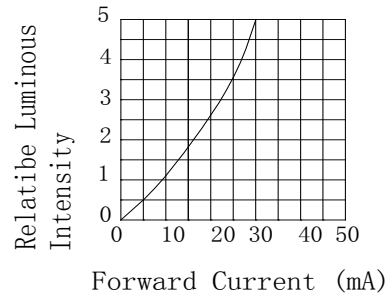
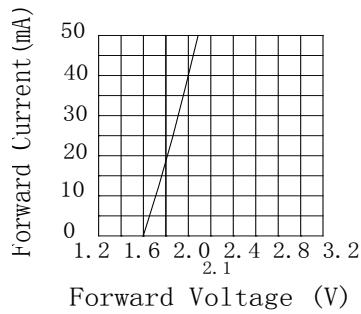
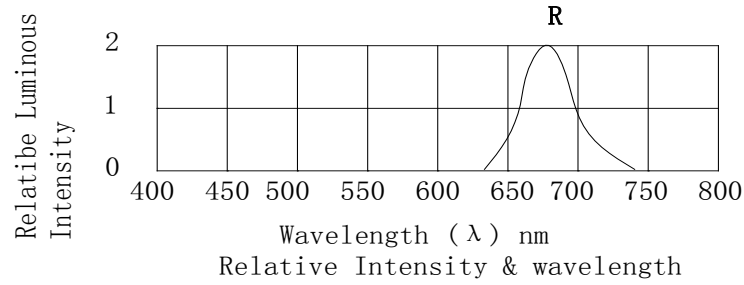
**Absolute Maximum Ratings At Ta=25°C**

Parameter	Green	Red	Unit
Power Dissipation	60	60	mW
Peak Forward Current[1]	60	60	mA
Continuous Forward Current	25	25	mA
Reverse Voltage	5	5	V
Operating Temperature Range	-40°C to + 85°C		
Storage Temperature Range	-40°C to + 100°C		
Soldering Condition	260°C For 5 Seconds		

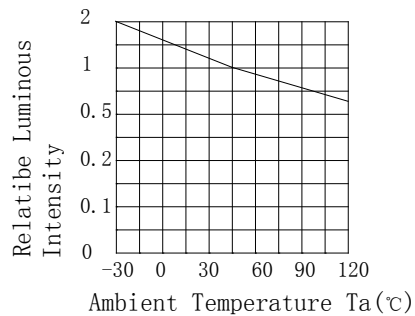
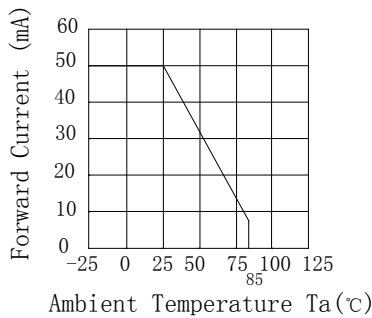
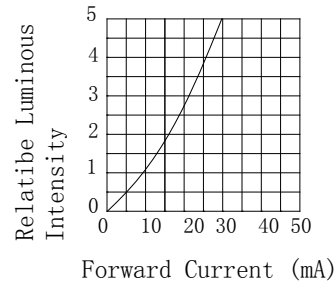
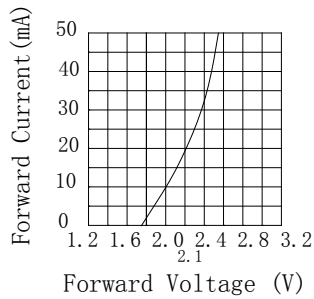
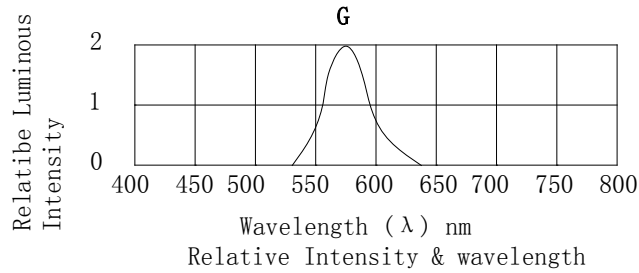
Note:

- 1/10DutyCycle, 0.1ms Pulse Width

**Electrical Optical Characteristics Curves At Ta=25 °C**



**Electrical Optical Characteristics Curves At Ta=25 °C**



Notes:

1. The LEDs should be used within a year.
2. The LEDs should be kept in 5~30°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.