

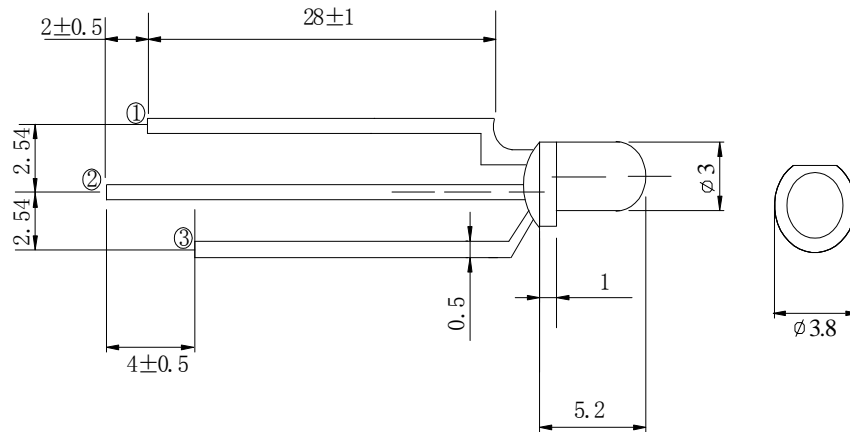
Features

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

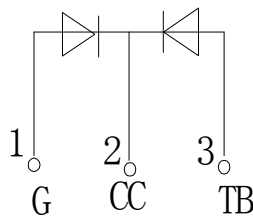
Applications

- Indicator

Package Dimensions



Common Cathode



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm(.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-3521TBG-ZWD1-CC

Selection Guide

Part No	Lens Type	Dice	Emitted Color
FDL-3521TBG-ZWD1-CC	White Diffused	GaAsP	Green Blue

Electrical / Optical Characteristics At Ta=25°C

Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Condition
Iv	Luminous Intensity		25/28		mcd	IF=10mA
2 θ 1/2	Viewing Angle		30/180		deg	IF=20mA
λ Peak	Peak Emission Wavelength		570/468		nm	IF=20mA
Δλ	Spectral Line Half-Width		30/25		nm	IF=20mA
VF	Forward Voltage		2.1/3.0	2.8/3.7	V	IF=20mA
IR	Reverse Current		50/50		uA	VR 5V

Note:

1. 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	Blue	Unit
Power Dissipation	80	100	mW
Peak Forward Current[1]	150	150	mA
Continuous Forward Current	30	30	mA
Reverse Voltage	5	5	V
Electrostatic Discharge Threshold(HBM)	2000	150	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. 1/10DutyCycle, 0.1ms Pulse Width

Electrical Optical Characteristics Curves At Ta=25°C

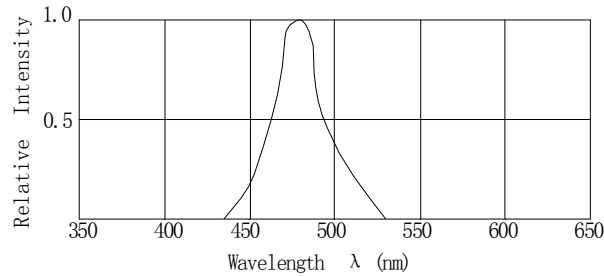


Fig.1 Relative Intensity VS. Wavelength

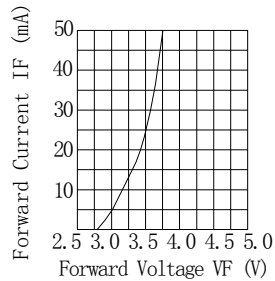


Fig.2 Forward Current vs. Forward Voltage

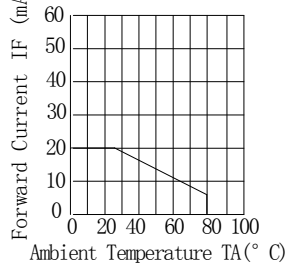


Fig.3 Forward Current Derating Curve

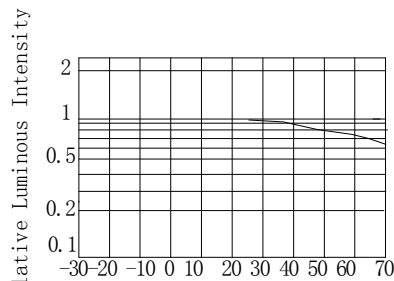


Fig.5 Luminous Intensity vs. Ambient Temperature

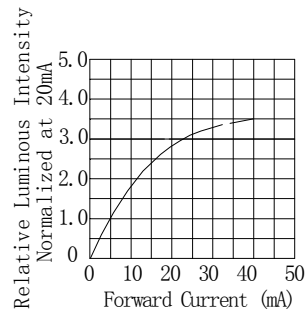
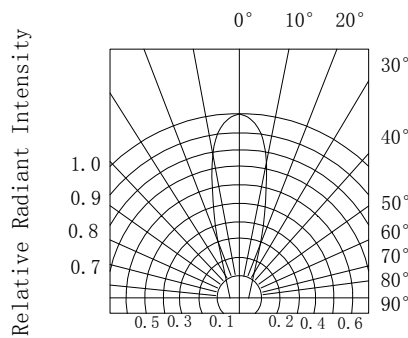
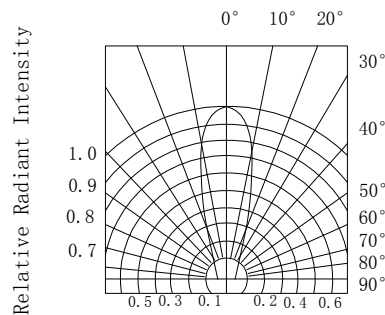
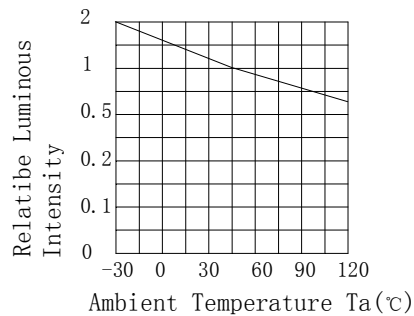
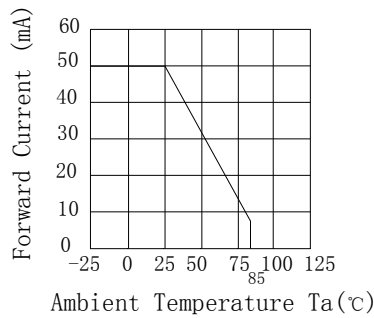
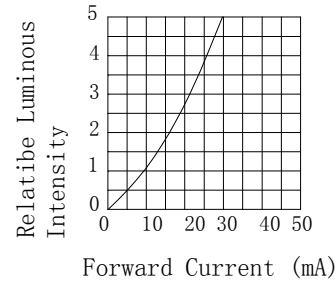
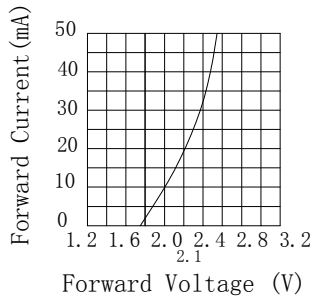
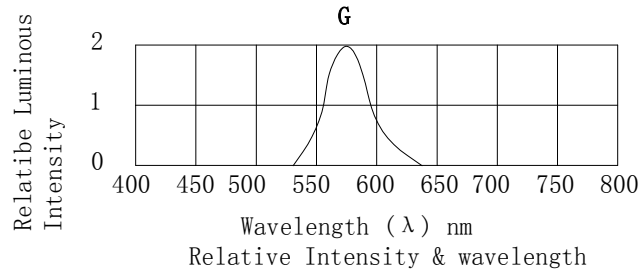


Fig.4 Relative Luminous Intensity vs. Forward Current



Radiation Diagram

Electrical Optical Characteristics Curves At Ta=25°C



Radiation Diagram

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.