

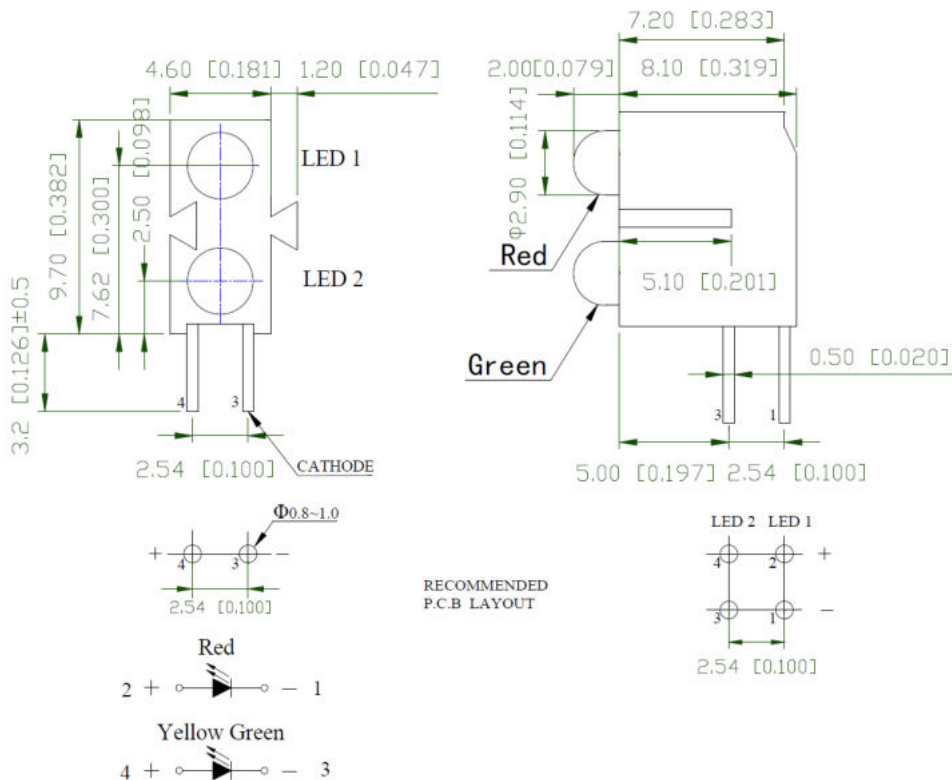
## Features:

- Low power consumption.
- High efficiency.
- Good control and free combinations on the colors of LED lamps.
- Good lock and easy to assembly.
- Stackable and easy to assembly.
- Stackable vertically and easy to assembly.
- Stackable horizontally and easy to assembly.
- Versatile mounting on P.C board or panel.
- Black case enhances contrast ratio.

## Applications:

- Computer.
- Communication.
- Industrial.

Part No.	Emitting Color	Lens Color(LED)
RND 135-00106	Deep Red	Red Diffused
	Yellow Green	Green Diffused



## Absolute Maximum Ratings at Ta=25°C

Parameters	Symbol	Max.	Unit
Power Dissipation	$P_d$	Red	65
		Yellow Green	78
Peak Forward Current <sup>(a)</sup>	$I_{FP}$	100	mA
DC Forward Current <sup>(b)</sup>	$I_F$	Red	25
		Yellow Green	30
Reverse Voltage	$V_R$	5	V
Operating Temperature Range	$T_{opr}$	-40°C to +80°C	
Storage Temperature Range	$T_{stg}$	-40°C to +85°C	
Soldering Temperature	$T_{sld}$	260°C for 5 Seconds	

Notes:

- a. Derate linearly as shown in derating curve.
- b. Duty Factor = 10%, Frequency = 1 kHz.

## Electrical Optical Characteristics at Ta=25°C

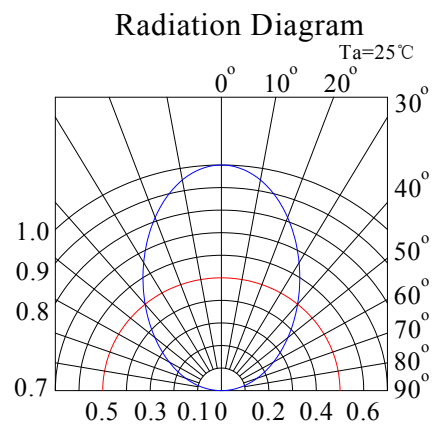
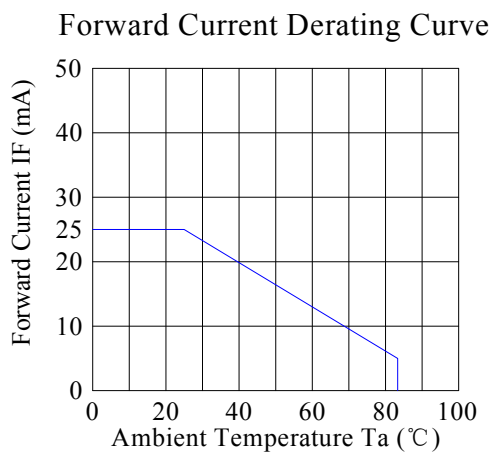
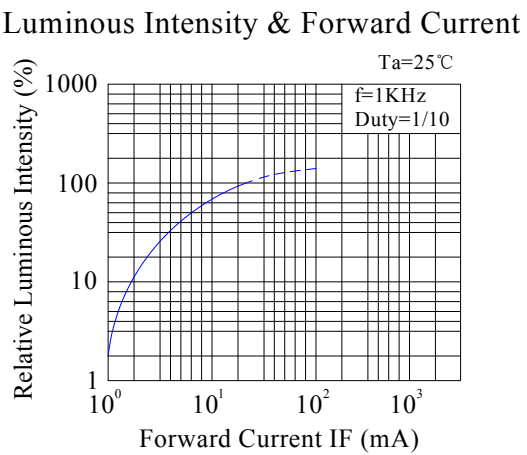
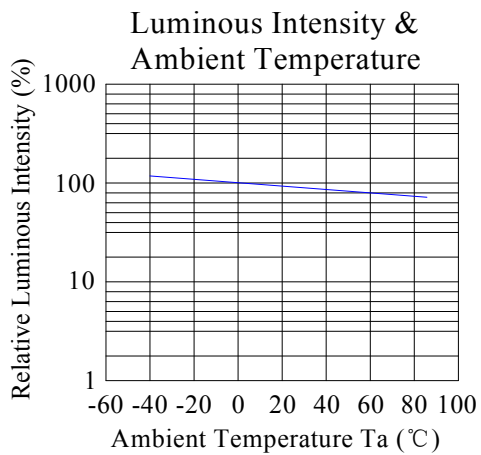
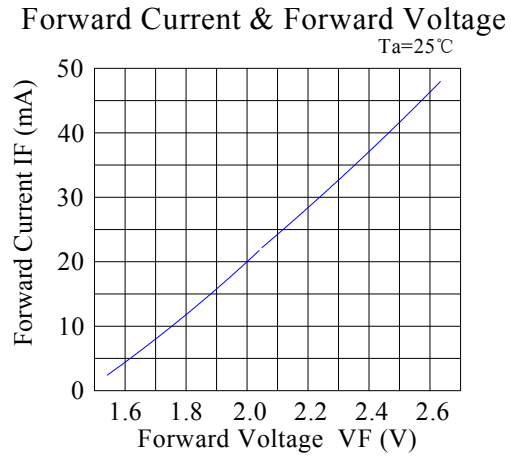
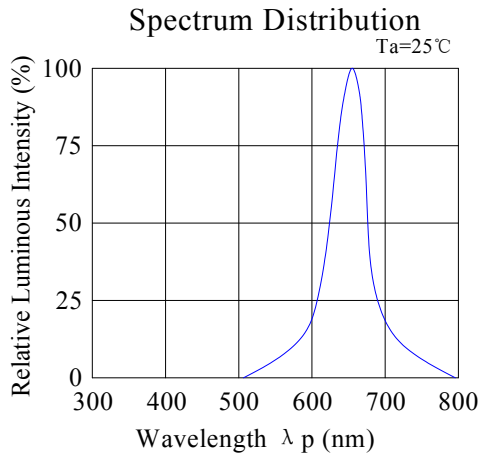
Parameters	Symbol	Emitting Color	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity <sup>(a)</sup>	I <sub>v</sub>	Red	20	45	---	mcd	IF=20mA
		Yellow Green	20	45	---		
Viewing Angle <sup>(b)</sup>	2θ <sub>1/2</sub>	Red	---	80	---	deg.	IF=20mA
		Yellow Green	---	80	---		
Peak Emission Wavelength	λ <sub>p</sub>	Red	---	660	---	nm	IF=20mA
		Yellow Green	---	565	---		
Dominant Wavelength <sup>(c)</sup>	λ <sub>d</sub>	Red	---	640	---	nm	IF=20mA
		Yellow Green	---	571	---		
Spectral Line Half-Width	Δλ	Red	---	45	---	nm	IF=20mA
		Yellow Green	---	20	---		
Forward Voltage	V <sub>F</sub>	Red	1.6	2.0	2.6	V	IF=20mA
		Yellow Green	1.6	2.2	2.6		
Reverse Current	I <sub>R</sub>	Red	---	---	10	μA	V <sub>R</sub> =5V
		Yellow Green	---	---	10		

### Notes:

- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2θ<sub>1/2</sub> is the o-axis angle where the luminous intensity is 1/2 the peak intensity.
- The dominant wavelength (λ<sub>d</sub>) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

## Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

Red:



## Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

### Yellow Green:

