

■Description

This RGB LED has three internal LEDs (Red, Green, and Blue) and three internal resistors that can be combined to deliver almost any color output with wide operation voltage of DC 3-15V.

■Features

- Wide Input Voltage
- Cost Saving and Space Saving
- Water Clear Type
- Three-color Common Cathode Type

■Applications

- Toys/Game/Audio
- TTL/Cmos Compatible
- Arduino/Steam Kit
- Other electronics products

■Absolute Maximum Rating (Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Voltage	V_F	15	V
Reverse Voltage	V_R	12	V
Power Dissipation	P_D	190	mW
Operating Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T_{sol}	260°C/5sec	-

■Electrical -Optical Characteristics (Ta=25°C)

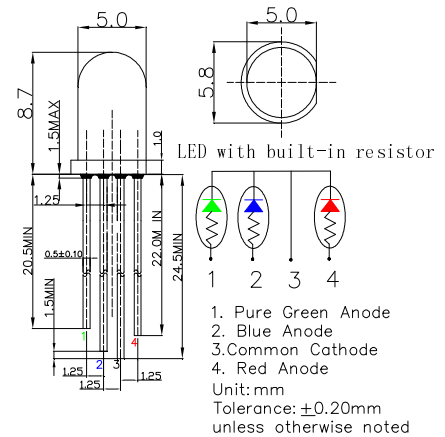
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Current*1	I_F (Red)	$V_F=9V$	-	7.5	-	mA
	I_F (Green)		-	8.0	-	mA
	I_F (Blue)		-	8.0	-	mA
Domi. Wavelength*2	λ_D (Red)		620	625	630	nm
	λ_D (Green)		520	525	530	nm
	λ_D (Blue)		465	470	475	nm
Luminous Intensity*3	I_v (Red)		-	3000	-	mcd
	I_v (Green)		-	5800	-	mcd
	I_v (Blue)		-	2180	-	mcd
50% Power Angle	$2\theta_{1/2}$		-	30	-	deg

*1 Tolerance of measurements of forward current $\pm 1\text{mA}$

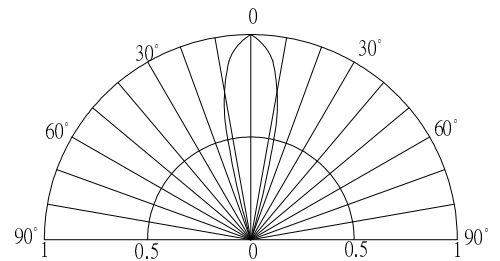
*2 Tolerance of measurements of dominant wavelength is $\pm 1\text{nm}$

*3 Tolerance of measurements of luminous intensity is $\pm 15\%$

■Outline Dimension



■Directivity



■Optical Characteristic Curves

